

APPENDIX A

INITIAL STUDY

INITIAL STUDY – ENVIRONMENTAL CHECKLIST FORM

RUSSIAN RIVER IRRIGATION RELIABILITY AND BENEFICIAL REUSE PROJECT

I. PROJECT PROPONENT

LEAD AGENCY:

Russian River County Sanitation District
c/o Sonoma County Water Agency
404 Aviation Boulevard
Santa Rosa, CA

PROJECT SPONSOR:

Russian River County Sanitation District
c/o Sonoma County Water Agency
404 Aviation Boulevard
Santa Rosa, CA

CONTACT PERSON:

Jeff Church
404 Aviation Boulevard
Santa Rosa, CA

II. PROJECT DESCRIPTION

PROJECT LOCATION:

The Proposed Project would be developed within Sonoma County on lands within and adjacent to the 2,700-acre service area of the Russian River County Sanitation District (District) (**Figure IS-1**). Extending outward from the wastewater treatment plant (WWTP) facilities, the project would be developed primarily within the roadbeds of County roads in the Russian River Valley and Green Valley areas.

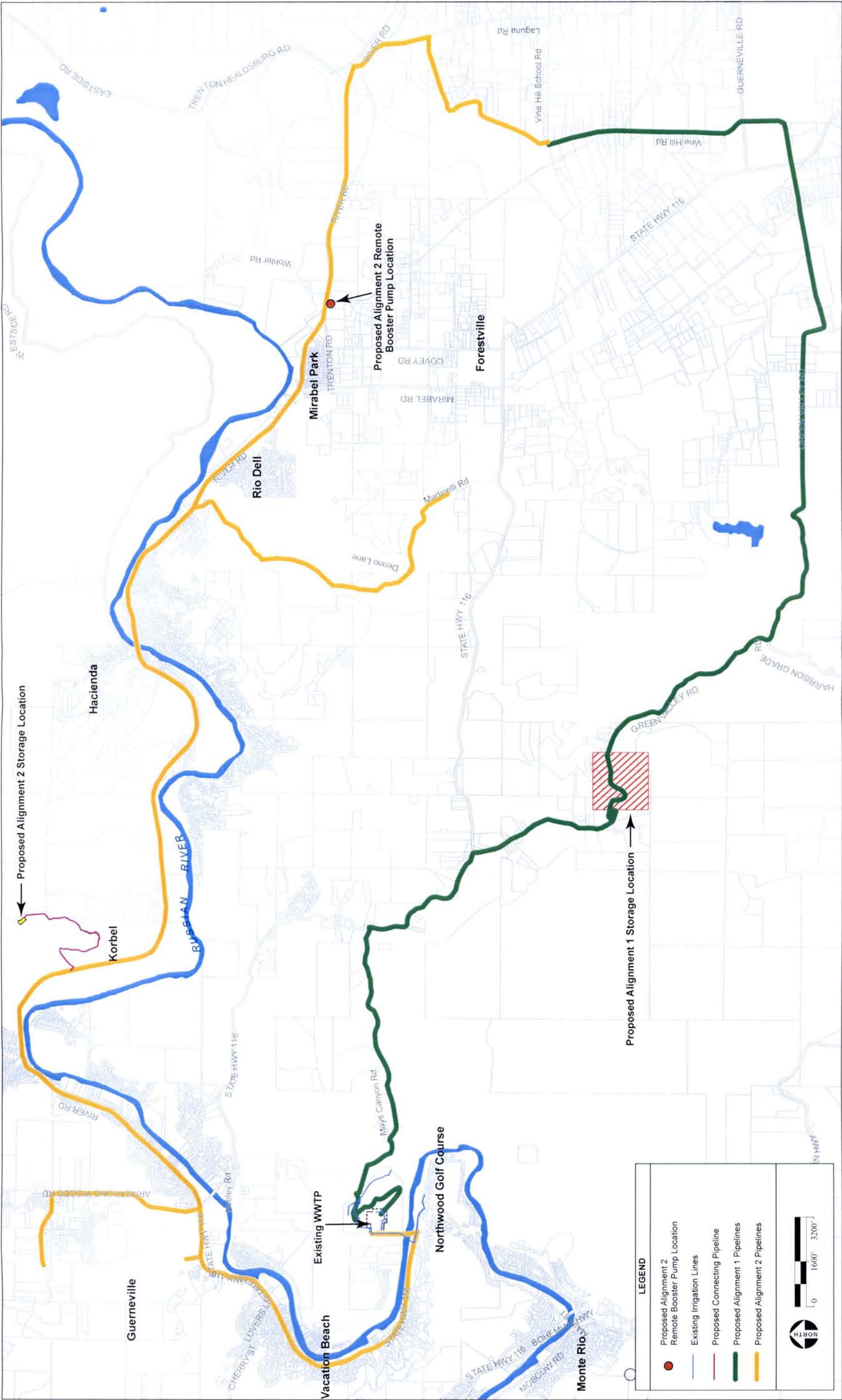
PROPOSED PROJECT:

The Irrigation Reliability and Beneficial Reuse Project (Proposed Project) would consist of the construction, operation, and maintenance of recycled water pipelines, booster pump stations, storage tanks, and associated appurtenances (**Figure IS-2**). The District is considering two proposed pipeline alignments:

Alignment 1 – approximately 12 miles of 8- to 14-inch pipeline and appurtenances in the Green Valley area.

Alignment 2 – approximately 20 miles of 8- to 14-inch pipeline and appurtenances in the Russian River Valley area.

For the purposes of analysis it is assumed the entire length of both alignments would be developed.



RRCSID Irrigation Reliability and Beneficial Reuse Project EIR / 206531 ■ **Figure IS -2**
Project Components and Study Area

The proposed recycled water pipelines, which would be placed primarily within existing public roadbeds, would distribute recycled water from the District treatment plant to portions of the Russian River Valley and/or Green Valley areas. The distribution system would provide a reliable recycled water system to serve agricultural, municipal, and other users in the Russian River Valley and Green Valley areas. The District would obtain a Master Reclamation Permit, which includes provisions governing quality and limiting use of recycled water for the protection of public health.

Depending on the route, storage tanks would be used to sustain pressure in the recycled water distribution system, add operational storage capacity, and assist in meeting peak water demands. Storage tanks with a total storage of up to 1,000,000 gallons may be located at one or more system high points, to provide system storage to meet normally expected daily demands without the need for pumping during peak energy usage hours. Storage tanks and off-stream reservoirs would be located in the general vicinity of the pipeline.

Required Regulatory Approval:

- The North Coast Regional Water Quality Control Board (NCRWQCB) has the authority to ensure compliance with District's National Pollution Discharge Elimination System (NPDES) permit and for Discharges of Storm Water Runoff Associated with Construction Activity (Order No. 99-08-DWQ).
- The NCRWQCB would issue a Master Reclamation Permit for the District to produce recycled water in accordance with the recycled water criteria established in Title 22 CCR § 60301 and provide recycled water to current and potential users.
- Sonoma County Permit and Resource Management Depart (PRMD) would issue any required grading permit for the construction of the pipeline alignments, storage tanks, and remote booster pump station.
- Sonoma County PRMD would issue encroachment permits for all construction work within County owned and maintained right-of-ways.
- The California Department of Transportation (Caltrans) would issue an encroachment permit(s) for all construction work within designated State road right-of-ways.

III. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a “Potentially Significant Impact” as indicated by the checklist on the following pages.

- | | | |
|--|---|--|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agricultural Resources | <input checked="" type="checkbox"/> Air Quality |
| <input checked="" type="checkbox"/> Biological Resources | <input checked="" type="checkbox"/> Cultural Resources | <input checked="" type="checkbox"/> Geology and Soils |
| <input type="checkbox"/> Hazards and Hazardous Materials | <input checked="" type="checkbox"/> Hydrology and Water Quality | <input type="checkbox"/> Land Use and Planning |
| <input type="checkbox"/> Mineral Resources | <input checked="" type="checkbox"/> Noise | <input type="checkbox"/> Population and Housing |
| <input type="checkbox"/> Public Services | <input type="checkbox"/> Recreation | <input checked="" type="checkbox"/> Transportation/Traffic |
| <input type="checkbox"/> Utilities and Service Systems | <input type="checkbox"/> Mandatory Findings of Significance | |

DETERMINATION: (To be completed by the Lead Agency)

On behalf of this initial evaluation:

- ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- ☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.
- ☒ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- ☐ I find that the proposed project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect 1) has been adequately analyzed in a earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to the earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Planner's Signature

Date

Jeff Church, Senior Environmental Specialist
Planner's Printed name

Russian River County Sanitation District
For

IV. EVALUATION OF ENVIRONMENTAL IMPACTS

Pursuant to CEQA *Guidelines*, Section 15063, the purpose of the initial study is to provide the lead agency with information to use as the basis for deciding whether to prepare an EIR or negative declaration. Or, if one is required, the initial study may be used to assist in the preparation of an EIR by focusing the EIR on significant impacts by eliminating environmental resources that would either not be impacted or have a less-than-significant impact from the implementation of the proposed project.

The *Guidelines* state that the initial study shall include an identification of environmental impacts by use of a checklist, matrix, or other method, provided that entries on a checklist or other form are briefly explained to indicate that there is some evidence to support the findings. Once, through the use of the checklist or other form, it has been determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is “Potentially Significant,” “Less Than Significant with Mitigation,” or “Less Than Significant”. A brief explanation is required for all answers, except “No Impact” answers that are adequately supported by the information sources. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project is outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

i. <u>AESTHETICS</u>	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock croppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SETTING

Coastal bluffs, vineyards, rolling hills, and mountains define the aesthetic character of Sonoma County and are important to the quality of life of residents and the tourist and agricultural economy. In the Guerneville area, ancient coast redwoods reaching over 300 feet tall are valuable scenic landscape features. Scenic Landscape Units, as designated by the Sonoma County Draft General Plan 2020 Update (General Plan Update), include River Road from the Russian River east to U.S. Highway 101 and State Route 116 (SR-116). Scenic Corridors, as designated by the General Plan, include River Road, SR-116, and Green Valley Road. These routes contain unique views of orchards, redwood groves, and the Russian River.

IMPACT DISCUSSION

Question A

Under the Proposed Project, the recycled water pipeline would be installed within the roadbeds. It would be visible above ground only where the users connect to the system. The storage facilities, distribution pump station, and booster pump station would not substantially alter scenic vistas or the aesthetic character of the project area. A *less-than-significant impact* to scenic vistas would occur.

Question B

Under the Proposed Project, the recycled water pipeline for Alignment 2 would be constructed within the alignment of a scenic highway; however, no scenic resources along the highway would be damaged. Tree removal required for construction of the storage tanks would not occur adjacent to a scenic highway. Construction of the remote booster pump station would occur at an existing Sonoma County Water Agency facility. A *less-than-significant impact* to scenic resources within a scenic highway would occur.

Question C

Construction of the storage tanks would change the visual character at the sites from forest to public utilities and water storage. For Alignment 2, there would be no publicly available views of these facilities. For Alignment 1, these facilities are being evaluated at a CEQA programmatic level within this initial study. Publicly available views of these facilities would likely be occluded by forest. The remote booster pump station would be of similar visual character as the existing SCWA facilities at the Wohler site. A ***less-than-significant impact*** to the visual character of the sites would occur.

Question D

Minimal exterior emergency lighting would be installed around the storage tanks and the remote booster pump station, in locations where there are currently no sources of artificial light during nighttime hours. The new sources of light to be introduced by operation of the Proposed Project would not substantially increase ambient light in the vicinity, and would not significantly impact day or nighttime views. A ***less-than-significant impact*** would occur.

FINDINGS

Implementation of the Proposed Project would result in a ***less-than-significant impact*** to the visual character of the area. This issue ***will not be addressed*** in the EIR.

ii. AGRICULTURAL RESOURCES	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the Project:				
a) Convert Prime farmland, Unique farmland, or Farmland of Statewide Importance, as shown on the maps prepared pursuant to the farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Involve other changes in the existing environment, which due to their location or nature, could result in conversion of farmland, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

Agriculture is a major industry in Sonoma County and provides a significant base to the County's economy. According to the General Plan Update, a majority of the land within the Russian River and Green Valley areas is designated for Resources and Rural Development. The Proposed Project consists of the development of utility infrastructure and would mostly occur within roadways. Land use designations along the linear footprint of the Proposed Project include Land Intensive Agriculture. The development of the storage tanks and remote booster pump station would occur on land designated as Resources and Rural Development.

IMPACT DISCUSSION

Question A-C

Implementation of the Proposed Project would not convert farmland into non-agricultural lands. One of the goals of the Proposed Project is to make recycled water available to existing agricultural operations in accordance with Title 22. As noted above, a majority of the Proposed Project consists of pipeline installed within County roadways. Construction of the storage tanks and remote booster pump station would be consistent with County land use designations and would not cause the conversion of farmland to non-agricultural land.

FINDINGS

The Proposed Project would not result in the conversion of prime farmland or conflict with existing zoning for agricultural use. Implementation of the Proposed Project would have ***no impact*** on agricultural resources. This issue ***will not be addressed*** in the EIR.

iii. AIR QUALITY	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Where applicable, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

The project area is located within the North Coast Air Basin, which includes northern Sonoma County along with Del Norte, Humboldt, and Mendocino counties. The North Sonoma County Air Pollution Control District (NSCAPCD) is the governing authority for air quality in the region. Pursuant to the Federal Clean Air Act, the area monitored by the NSAPCD is in attainment (or unclassified) for all National Ambient Air Quality Standards for Criteria Air Pollutants (CAPs) (ozone, particulate matter, carbon monoxide, nitrogen dioxide, lead, and sulfur dioxide). Pursuant to the California Clean Air Act (CCAA), the NSCAPCD is considered in attainment (or unclassified) for most of the California Ambient Air Quality Standards (ozone, carbon monoxide, fine particulate matter, nitrogen dioxide, sulfur dioxide, lead, sulfates, hydrogen sulfide, vinyl chloride, and visibility reducing particles). The NSCAPCD is classified as non-attainment for particulate matter (PM₁₀). In accordance with the CCAA, air quality attainment plans are not required for areas that violate the state PM₁₀ standard.

IMPACT DISCUSSION

Questions A-C

Construction of the Proposed Project may impact air quality by generating particulate matter. Construction activities include the disturbance of approximately six acres of land. This disturbance could generate fugitive dust, increasing PM₁₀ concentrations in the air of the immediate vicinity. Furthermore, construction equipment and worker trips generate diesel and gasoline exhaust. A majority of the acreage entails linear disturbances during pipeline construction. Therefore, the total disturbance per day would be

far below the total six acres. Impacts of construction with respect to PM₁₀ emissions would be *less than significant with mitigation*.

Operation of the Proposed Project would not contribute to an increase in the generation of considerable quantities of PM₁₀ or other CAPs from the operation of the Proposed Project. The only source of criteria emissions would be from the operation of the existing transfer pump; therefore, operation of the Proposed Project would not conflict with or obstruct implementation of the applicable air quality plan, violate any air quality standard or contribute substantially to an existing or projected air quality violation, or result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard. Operation of the Proposed Project would result in *less than significant* impacts on air quality.

Question D

There would not be a substantial concentration of any pollutant in the project vicinity; however PM₁₀ is a pollutant of concern with regard to attainment in the NSCAPCD, and therefore any PM₁₀ generated by the Proposed Project may have an adverse effect on sensitive receptors in the area. The impacts of construction and operation to sensitive receptors due to PM₁₀ would be *less than significant with mitigation*.

Question E

Objectionable odors, such as diesel emissions created during construction of the Proposed Project, would most likely not be detected beyond the construction boundary. During operations, the use of recycled water would not generate odors as the treatment to tertiary standards prevents putrefaction and other odor causing activities from occurring. Subsequently, *no impacts* would occur.

FINDINGS

Construction of the Proposed Project would involve heavy equipment and the movement of soils, which are both sources of PM₁₀ air pollution. Potential impacts to air quality resulting from the Proposed Project would be *less than significant with mitigation*. These issues will be addressed within **Section 3.8, Air Quality**, of the EIR.

iv. BIOLOGICAL RESOURCES	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native residents or migratory wildlife corridors or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local regional, or state habitat conservation plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SETTING:

The project area is located in the Outer North Coast Range floristic province (Hickman, 1993) and contains agricultural fields/vineyards, redwood forest, California bay forest, mixed evergreen forest, mixed woodland, willow riparian scrub, rural residential, and ruderal/developed. The Russian River flows along the northern pipeline route, and tributaries and associated drainages cross the proposed pipeline routes in numerous locations. The Russian River and its tributaries are considered waters of the U.S. Other waters of the U.S. located in the vicinity of the project area include the Pitkin Marsh and various palustrine emergent wetlands.

IMPACT DISCUSSION**Question A**

The proposed pipeline alignments would be laid in the roadbed of both paved (majority of Alignment 1 and Alignment 2) and unpaved (Alignment 1 from Burch Property to Mays Canyon Road and connecting pipeline from Alignment 2 to Korbel storage tank), and therefore would not impact special-status plant species that may occur within the corridor of the proposed pipeline alignments. Construction of the proposed storage tanks would require clearing vegetation. If any special-status plant species occur in the

proposed storage tanks location, there is the potential for them to be impacted by clearing or construction activities. Impacts to special-status plant species resulting from construction of the Proposed Project would be *less than significant with mitigation*.

The California freshwater shrimp (*Syncaris pacifica*), California tiger salamander (*Ambystoma californiense*), foothill yellow-legged frog (*Rana boylei*), northwestern pond turtle (*Clemmys marmorata marmorata*), osprey (*Pandion haliaetus*), and pallid bat (*Antrozus pallidus*) are federal and state special-status species and are known to occur in habitats located in the vicinity of the Proposed Project. Additionally, the Russian River and its larger tributaries, such as Green Valley Creek, provide habitat for the Russian River tule perch (*Hysterocarpus traskii pomo*), the central California coastal Coho salmon (*Oncorhynchus kisutch*), the central California coastal steelhead (*Oncorhynchus mykiss*), and the California coastal Chinook salmon (*Oncorhynchus tshawytscha*), which are all federally and/or state-listed species. Construction activities near the Russian River and its larger tributaries could potentially result in the take of these species. Furthermore, the Proposed Project involves construction activities, such as tree removal at the storage tank sites, which may disturb nesting migratory birds. Impacts to federally and/or state-listed fish species and to migratory birds resulting from construction of the Proposed Project would be *less than significant with mitigation*.

Question B-C

There are no registered sensitive natural communities located at the WWTP, along the pipeline routes, at the prospective storage tank sites, or at the remote booster pump station site. Several riparian corridors and wetlands with the potential to be under the jurisdiction of the U. S. Army Corps of Engineers are located along the pipeline routes. However, avoidance of all riparian corridors and wetlands has been incorporated into the project design through development within the roadbeds of paved and unpaved roadways and the use of alternate methods of construction such as jack and bore tunneling, directional drilling, and trenching under small culverts. *No impact* would occur.

Question D

Construction of the Proposed Project would not impact the movement of native migratory fish or impact migratory wildlife corridors. A majority of the project would be located along county roadways, which already divide the landscape. Additionally, a majority of the project site has adjacent slopes that are too steep to facilitate migration. Furthermore, the pipelines would be located within the roadbeds and beneath any culverts, and would therefore not increase impedance of any migratory fish or wildlife. *No impact* would occur.

Questions E-F

It is likely that the construction of the proposed storage tanks would involve the removal of protected trees. It is possible that construction of the proposed pipeline would involve construction activities taking place within the drip lines of protected trees. This impact would be *less than significant with mitigation*.

FINDINGS

It was determined that impacts to special-status species, riparian habitat, trees, local ordinances, and habitat conservation plans due to construction activities on the pipeline and locations of the storage tanks would be *less than significant with mitigation*. These issues will be addressed in **Section 3.5, Biological Resources**, of the EIR.

v. <u>CULTURAL RESOURCES</u>	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SETTING

Portions of the project site have previously been surveyed for cultural resources pursuant to the National Historic Preservation Act, Section 106, and CEQA. Furthermore, AES performed a records search and field survey to evaluate the presence of cultural significant areas within the project site. Four prehistoric archaeological sites are known to exist within pipeline alignments. The pipeline alignments would cross two bridges that are more than 50 years old.

IMPACT DISCUSSION

Questions A-D

Ground-disturbing activities have the potential to adversely affect the cultural resources identified within the linear footprint of the pipeline alignment. Though much of the project site has been previously disturbed, thereby reducing the likelihood that intact archaeological sites exist, impacts related to the development of the Proposed Project could affect previously unidentified significant historical resources. These impacts would be *less than significant with mitigation*.

FINDINGS

It was determined that construction of the Proposed Project has the potential to result in impacts to cultural resources, which would be *less than significant with mitigation*. This issue will be addressed in Section 3.4, Cultural Resources, of the EIR.

vi. GEOLOGY AND SOILS	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Expose people or structures to potential substantial adverse effects including the risk of loss injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known Fault? Refer to Division of Mines and Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Expose people or structures to potential substantial adverse effects including the risk of loss injury, or death involving strong seismic ground shaking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Expose people or structures to potential substantial adverse effects including the risk of loss injury, or death involving seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Expose people or structures to potential substantial adverse effects including the risk of loss, injury, or death involving landslides?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Be located on expansive soil, as defined in Table 18-1-B of the uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

Topography

The project site is located within the Russian River watershed as it winds through the Coastal Range. The topography of the project area is typical of the Coastal Range, characterized by northwest-southwest trending ridges and distinct valleys. The project site originates at the southern base of Neeley Hill (elevation 800 feet above mean sea level) on land sloping north to south toward the Russian River. A majority of the project site is within the roadbed of County roads that have been previously engineered. The storage tanks for both pipelines would be constructed on moderately flat slopes.

Faults

The closest active faults to the project area are the San Andreas Fault, which is approximately 8.5 miles to the southwest, and the Healdsburg Fault, which is approximately 12.5 miles to the northeast. According to the *Seismic Shaking Hazards in California* map, the project area is located in an area of peak ground acceleration of moderate hazard (CGS, 2006a).

Soils

Soil types occurring in the vicinity of project components include lowland sediments and mountainous bedrock-derived soils. These soils were developed from unconsolidated alluvium of sedimentary and volcanic materials deposited in valleys and along the shores. The soils on the alignment of both pipelines consist of loams, sandy loams, and gravelly loams (**Appendix F**). Loam is a soil type composed of sand, silt, and clay in relatively even concentrations. Sandy loams and gravelly loams have more sand and silt compared to loams. Loams are gritty soils that exhibit plastic characteristics when wet. They retain water well, yet drain equally as well when topography allows. Soils within the construction path of the pipelines have been previously disturbed and reinforced through the construction of county roadways.

Geologic Hazards

Landslides occur in Sonoma County during episodes of high-intensity, long-duration rain events and potentially during seismic events in areas that have steep slopes with weak soils devoid of vegetation. Due to the weak and deformed nature of the Franciscan rocks in the project area, the Coast Range is prone to deep weathering and development of thick overlying soils. These thick soils create excess weight, especially when wet, and are prone to landslides. According to the Sonoma County General Plan Update, the current wastewater treatment plant and sections of the pipeline routes are located in areas that have high landslide potentials. The storage tank sites for both alignments and the remote booster pump station are located in areas of low landslide potential.

Surface ruptures occur when movement along both sides of faults, which are located deep underground, produce enough energy to cause a fracture on the surface. The actual project sites are not located within an Alquist-Priolo Earthquake Fault Zone or in a Seismic Hazard Zone as defined by the Seismic Hazards Mapping Act.

The components of the Proposed Project are located within areas of moderate to severe potential shaking intensity. The WWTP, pipeline route and storage tanks for Alignment 1, and storage tanks for Alignment 2 are located in areas of moderate shaking intensity. A majority of the pipeline route for Alignment 2 is located within areas of potentially severe shaking intensity.

Soils comprised of sand and sandy loams, in areas with high groundwater tables or rainfall, are subject to liquefaction during intense seismic shaking events. According to the Association of Bay Area Governments (ABAG), various areas of the pipeline alignments are subject to liquefaction during these strong seismic events.

IMPACT DISCUSSION

Question A

The project site is not located within an area subject to surface rupture under the Alquist-Priolo Act, which identifies areas within California subject to surface rupture hazards and limits construction within these zones. Therefore, implementation of the Proposed Project would have ***no impact*** regarding surface rupture zones.

Question B

Implementation of the Proposed Project would place structures in an area identified by U.S. Geological Survey (USGS) and California Geological Survey (CGS) maps as having a moderate to high shaking intensity potential. Placement of the components within these areas could potentially result in impacts, which would be *less than significant with mitigation*.

Questions C -F

According to the General Plan Update and the ABAG, components of the Proposed Project are located in areas of known geologic hazards including soil erosion, landslides, and liquefaction. Placement of the components within these areas could potentially result in impacts, which would be *less than significant with mitigation*.

Question G

Soils located within the project areas are not defined as expansive soils; therefore, construction would not be limited within the project areas. *No impact* would occur.

Question H

The Proposed Project does not include development of septic facilities or alternative wastewater treatment options. *No impact* to soils would occur.

FINDINGS

Based on the location of project components and the proximity of major fault zones, implementation of the Proposed Project could result in impacts related to seismic shaking and geologic hazards such as ground shaking, landslides, and liquefaction. Furthermore, the project sites contain areas of known geologic hazards, such as weather induced landslides, expansive soils, and erosive soils. Impacts result in impacts, which would be *less than significant with mitigation*. These issues will be addressed within Section 3.2, Geology and Soils, of the EIR.

vii. HAZARDS AND HAZARDOUS MATERIALS	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handles hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working within the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

SETTING

A material is considered hazardous if it appears on a list of hazardous materials prepared by a federal, state, or local agency, or if it has characteristics defined as hazardous by such an agency. A hazardous material is defined in Title 22 of the California Code of Regulations (CCR) as:

A substance or combination of substances which, because of its quantity, concentration, or physical, chemical or infectious characteristics, may either (1) cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (2) pose a substantial present or potential hazard to human health or environment when improperly treated, stored, transported or disposed of or otherwise managed (CCR, Title 22, Section 66260.10).

Regulatory agency database reports were prepared by Environmental Data Resources (EDR). These reports are included as **Attachment 1** of this Initial Study. The EDR reports include lists of hazardous materials incidents that occur within a one-mile radius of the linear project area. Incidents listed within an EDR report include the documented use, storage, or release (accidental or permitted) of hazardous materials or petroleum products. The following paragraphs summarize the findings of the EDR reports.

Wastewater Treatment Plant

The regulatory agency database search identified a past hazardous material release on the District property (EDR, 2006). In 1995, an underground storage tank (UST) used to store diesel fuel for an emergency generator for the facility was punctured during well point installation, releasing approximately 850 gallons of diesel fuel. After the accident, approximately 230 cubic yards of contaminated soils were removed from the site. Several remedial investigations were performed on the site, including the installation of three groundwater-monitoring wells and collection of 15 soil borings in the vicinity and down gradient of the former UST. Analytical results from the two down gradient monitoring wells showed no residual contamination in groundwater. A monitoring well located within 50 feet of the former UST shows residual diesel fuel hydrocarbons. All construction activities would occur up gradient and 50 feet beyond the areas affected by the UST leak.

Storage Tank Locations

There are no hazardous materials sites in the vicinity of the storage tank locations that would create a hazard during construction or operation of the proposed project.

IMPACT DISCUSSION

Questions A and B

During construction of the Proposed Project, it is anticipated that earth-moving equipment would be temporarily stored on site and would require periodic maintenance and fueling. While performing periodic maintenance and fueling, the possibility exists for an accidental release of petroleum products to occur. An accidental release of petroleum products into the environment could create a hazard to human health and the environment.

Implementation of **Mitigation Measures a-d** during construction would limit the potential for an accidental release of hazardous materials. These measures would establish controls to prevent spills, ensure spills do not reach sensitive environments, and ensure contaminated soils are contained, removed, and disposed of appropriately. Therefore, after mitigation this impact would be considered *less than significant*.

Question C

The Proposed Project would not result in hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within 0.25 miles of an existing or proposed school. Therefore, *no impact* regarding hazardous emissions or handling hazardous or acutely hazardous materials would occur.

Question D

There are no hazardous materials sites within a 1-mile radius of potential storage tank locations for both pipeline alignments. The WWTP site is listed on several databases as the location of a former leaking under ground storage tank (UST). The diesel UST and affected soils were subsequently removed in 1995. During case closure activities it was determined that residual concentrations remained stable and no additional remedial actions were necessary. Although the WWTP is listed as a hazardous materials site, it is not likely that to result in a significant hazard to the public or environment. Therefore, ***no impact*** would occur.

Question E

A portion of the Alignment 2 pipeline is located within an area covered by an airport land use plan. The Alignment 2 pipeline is within the boundary of the detailed land use study area of the Sonoma County Airport Land Use Plan. Land use compatibility issues will be addressed in the land use section of this Initial Study. Additionally, the Alignment 2 pipeline is located within 2 miles of the Sonoma County Airport. Construction activities within this portion of the project would be limited to trenching within an existing roadbed. There are no project components that would result in safety hazards to the public or to aircraft approaching the Sonoma County Airport. As a result, the project would not pose a safety hazard to people residing or working in the project area. Therefore, ***no impact*** would occur.

Question F

There is no private airstrip in the project vicinity. Therefore, the project would not result in a safety hazard to the public. ***No impact*** would occur.

Question G

Temporary traffic impacts would occur during project construction, which have the propensity to obstruct an adopted emergency response plan along the linear pipeline alignments of the proposed project. This impact would be ***less than significant with mitigation***. This issue, including appropriate mitigation, will be addressed with the discussion of transportation and traffic in **Section 3.7** of the EIR.

Question H

With implementation of **Mitigation Measures e-g**, the Proposed Project would result in a ***less-than-significant*** risk of loss, injury, or death involving wildland fires.

Mitigation Measures

- a. To reduce the potential for accidental releases, fuel, oil, and hydraulic fluids shall be transferred directly from a service truck to construction equipment tanks and shall not otherwise be stored on site.
- b. Personnel shall follow written standard operating procedures (SOPs) for filling and servicing construction equipment and vehicles. The SOPs, which are designed to reduce the potential for incidents involving the hazardous materials, shall include, but not limited to the following:

1. *Refueling shall be conducted only with approved pumps, hoses, and nozzles.*
 2. *Catch pans shall be placed under equipment to catch potential spills during servicing.*
 3. *All disconnected hoses shall be placed in containers to collect residual fuel from the hose.*
 4. *Vehicle engines shall be shut down during refueling.*
 5. *No smoking, open flames, or welding shall be allowed in refueling or service areas.*
 6. *Refueling shall be performed on a predesignated flat area away from storm drains to prevent contamination of water bodies in the event of a leak or spill.*
 7. *Service trucks shall be provided with fire extinguishers and spill containment equipment, such as absorbents.*
 8. *Should a spill contaminate soil, the soil shall be put into containers and disposed of in accordance with local, State, and Federal regulations.*
 9. *All containers used to store hazardous materials shall be inspected at least once per week for signs of leaking or failure. All maintenance and refueling areas shall be inspected monthly. Results of inspections shall be recorded in a logbook that would be maintained on site.*
 10. *The amount of hazardous materials used in project construction and operation shall be consistently kept at the lowest volumes needed.*
- c. The use of toxic chemicals shall be minimized or less toxic alternatives shall be used to the greatest extent feasible in landscaping.
- d. If suspected soil contamination is encountered during excavation and grading activities, all work shall be halted and a qualified individual, in consultation with the DTSC, shall determine the appropriate course of action.
- e. All construction equipment shall include spark arresters in good working order.
- f. Staging areas, welding areas, or areas slated for construction using spark-producing equipment shall be cleared of dried vegetation or other materials that could serve as fire fuel.
- g. To the extent feasible, the contractor shall keep areas around the construction site clear of combustible materials in order to maintain a firebreak.

FINDINGS

The Proposed Project would not create an unnecessary risk as a result of hazards or hazardous materials. Implementation of the Proposed Project would have a ***less than significant impact*** from hazardous materials. This issue ***will not be addressed*** in the EIR.

The Proposed Project could interfere with an adopted emergency response plan by impeding traffic during construction along the linear pipeline alignments of the proposed project constituting a potentially significant impact. This issue, including appropriate mitigation, will be addressed with the discussion of transportation and traffic in **Section 3.7** of the EIR.

viii. HYDROLOGY AND WATER QUALITY	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner that would result in substantial erosion or siltation on- or off-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner that would result in flooding on- or off-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Create or contribute runoff water that would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood hazard Boundary or Flood Insurance rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures that would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

Hydrology

The area where the Russian River winds around the communities of Rio Del, Rio Nido, and Guerneville encompasses three watersheds: the Russian River, Green Valley Creek, and Mark West Creek. The project components would cross various tributaries to the Russian River, as well as the Russian River itself along the route for Alignment 2. Designated waters of the U.S. are discussed above in **Section IV, Biological Resources**.

Water Quality

The lower Russian River is listed on California's 303(d) list of impaired water bodies. The lower Russian River is listed as a medium priority for sedimentation/siltation and a low priority for temperature. The increase in sedimentation and temperature is attributed to historic grazing, agriculture, logging, road

construction, and habitat modification (Sonoma County, 2006). The process of developing Total Maximum Daily Loads (TMDLs), which specify the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, has not yet been started for the lower Russian River.

Flooding

The Russian River and corresponding tributaries create a Zone A flood plain, as defined by The Federal Emergency Management Agency. Zone A floodplains identify areas that have a one percent change of experiencing a 100-year, or greater, flood in any given year. The WWTP and subsequent upgrades to the booster pump station are not located within the floodplain. 1 crosses the floodplain along Green Valley Road as it crosses Green Valley Creek and Atascadero Creek. Alignment 2 traverses through the floodplain as it follows the Russian River.

IMPACT DISCUSSION

Question A

The purpose of the proposed project is to prevent future violations of the District's NPDES permit regarding illicit discharges of treated wastewater into surface waters. At times of peak flow, the WWTP disposes of recycled water at the Burch property through spray irrigation at levels higher than the soil carrying capacity, causing surface runoff of treated wastewater, which is a violation of the NPDES permit. The expansion of irrigation lines would provide additional opportunities for treated wastewater disposal, preventing the commingling of treated wastewater and surface waters. This would result in a ***beneficial impact*** to water quality in the region.

Construction activities associated with the Proposed Project would not impact surface water quality with the implementation of best management practices in accordance with the NPDES permit for general construction, which is required for projects disturbing over five acres. The provisions of the NPDES permit would reduce impacts from construction, such as soil erosion and commingling of construction materials with surface waters, to ***less than significant***.

Question B

Implementation of the Proposed Project would not impact groundwater resources. A majority of the project area does not have a classified groundwater basin. Implementation of the Proposed Project would not result in increased groundwater withdrawal, and may in fact reduce the existing levels of groundwater withdrawal assisting in the recharge of existing groundwater resources. Impacts from the Proposed Project to groundwater resources would be ***beneficial***.

Question C – E

Although a majority of the Proposed Project would be constructed within county roadways, the installation of the pipelines could alter existing drainage patterns if they obstruct the flow of drainages the pipeline may transect. Obstruction of drainage patterns could cause upstream flooding and alter drainage patterns causing erosion and siltation of receiving waters. Because a majority of the project would be

located within the county roadways, impervious surface would not be greatly increased in the region after construction activities are completed. If the storage tanks and remote booster pump station were located within drainage patterns to the tributaries of the Russian River, upstream flooding and erosion from the construction sites could occur. The impact to water resources in the region from the alteration of drainage patterns through implementation of the Proposed Project would be *less than significant with mitigation*.

Question F

Implementation of the Proposed Project would result in the substitution of recycled water for potable water for irrigation of agricultural lands and other non-contact uses. The use of recycled water in lieu of potable water for non-contact uses (agriculture, landscape irrigation, etc.) could result in violation of water quality objectives if the recycled water contains contaminants above water quality objectives and co-mingles with water resources in the region. If recycled water co-mingles with stormwater runoff, the contaminants within the mixture could affect receiving waters and violate water quality objectives outlined by the NCRWQCB. Additionally, irrigation with recycled water could degrade groundwater quality. However, previous monitoring studies indicate that percolation of recycled water generated at the District's WWTP does not degrade water quality. The monitoring report concluded that the quality of wastewater was more than adequate, and the processes of soil adsorption/adsorption and plant uptake further reduces contaminant concentrations prior to co-mingling with groundwater resources. This impact would be *less than significant with mitigation*.

Questions G – J

The proposed storage tanks and remote booster pump station would not be located within the floodplain, nor is the existing WWTP. Portions of both pipeline alignments would transect the floodplain. Although both pipeline routes have sections located within the floodplain, the pipelines would be within the roadbed. Surface restoration would be incorporated into the Proposed Project, including restoring roadways and unpaved areas to pre-project conditions. Therefore, implementation of the Proposed Project would not alter floodplain elevations and would have *no impact*.

The Proposed Project would not be inundated by seiche, tsunami, or mudflow.

FINDINGS

Implementation of the Proposed Project would potentially impact hydrology and water quality in terms of drainage patterns, water quality, and flooding. These impacts would be *less than significant with mitigation*. These issues will be addressed within **Section 3.3** of the EIR.

ix. LAND USE AND PLANNING	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SETTING

The existing wastewater treatment plant (WWTP) located in Sonoma County, south of the unincorporated City of Guerneville and the Vacation Beach residential community. It is used for the tertiary treatment of wastewater and is developed with wastewater treatment equipment and appurtenant structures, such as the administration and mechanical buildings. Undeveloped areas located along the perimeter of the District's facility boundaries are either barren or vegetated. Surrounding land uses consist of residential housing to the west and evergreen forest to the north, east and south.

Proposed pipeline alignments for the conveyance of recycled water from the WWTP to places of use would primarily be within existing paved roadways servicing various unincorporated communities, rural residential areas, and agricultural and forest lands in the Russian River Valley and Green Valley areas. Use of recycled water would occur on previously developed and currently irrigated agricultural lands within the Russian River and Green Valley areas. The exact areas for application of recycled water would be determined through an ongoing selection process based on land use compatibility, landowner interest, and connection feasibility.

IMPACT DISCUSSION

Question A

The recycled water pipelines would be located beneath roadways and potentially suspended under a bridge. Storage tanks and pump stations associated with the project would be small structures, and would not be located in residential areas. The Proposed Project would not physically divide an established community. *No impact.*

Question B-C

California Government Code Section 53091(d)(e) states that building and zoning ordinances of a county or city shall not apply to the location or construction of facilities for the production, generation, storage, treatment, or transmission of water, wastewater, or electrical energy by a local agency. The consistency of the Proposed Project with land use plans, policies, or regulations of agencies adopted for the purpose of

avoiding or mitigating environmental effects is discussed under the relevant environmental sections of this checklist. The consistency of the Proposed Project with applicable habitat conservation plans or natural community conservation plans is also discussed under the relevant environmental sections of this checklist (i.e. Aesthetics, Biological Resources, Geology and Soils, Water Resources, etc.). When appropriate, mitigation measures are provided to reduce all potential impacts to ***less than significant***. No additional mitigation is required.

FINDINGS

Implementation of the Proposed Project would have a ***less-than-significant with mitigation*** impact on land use, as the project is a wastewater utility project, and therefore is not subject to building and zoning ordinances. Consistency with applicable plans and ordinances has been previously addressed throughout the initial study. This issue ***will not be addressed*** in the EIR.

x. MINERAL RESOURCES	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

The California Division of Mines and Geology (CDMG) has classified the middle reach of the Russian River and the west side of Green Valley Road approximately three miles southwest of Forestville as Regionally Significant Construction Aggregate Resources Areas in North San Francisco Bay Production-Consumption Region. CDMG also classified two small areas one mile west of Forestville and both north and south of SR-116 as small siltstone deposits.

IMPACT DISCUSSION

Questions A and B

The development of the project components would require grading and excavation activities at the WWTP, along county roads, and within forested areas. The specific areas labeled by CDMG are the alluvial deposits of the middle reach of the Russian River extending from the City of Healdsburg to the Wohler Road Bridge. This area is approximately 12 miles upriver from the project site. There are no designated mineral resources within the property boundaries of the existing WWTP. **No impact** to mineral resources would occur.

FINDINGS

Implementation of the Proposed Project would have **no impact** on mineral resources, as they are not a registered resource within the project sites. This issue **will not be addressed** in the EIR.

xi. NOISE	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project result in:				
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Exposure of persons to or generation of excessive groundborne vibration noise levels?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

Northern Sonoma County is rural in nature. The Russian River area of Sonoma County is dotted with vineyards, vacation homes, and small towns. Ambient noise in the vicinity of the project site varies from rural country approximately 40 decibels (dB) to rural town approximately 55 dB. Traffic along River Road and SR-116 can reach 80 dB, while residential areas can reach 55 dB.

Sensitive noise receptors near the in the project region include residential housing, businesses and potentially sensitive biological resources found in surrounding undeveloped areas. Ambient noise in the vicinity of the project site is mainly the result of traffic on local roads.

IMPACT DISCUSSION

Questions A-D

Construction of the Proposed Project may result in the exposure of sensitive noise receptors to significant temporary increases in noise and vibration levels in areas near construction zones. This impact would be ***less than significant with mitigation***. Operation of the proposed booster pumps may result in the exposure of sensitive noise receptors to increases in ambient noise levels. This impact would be ***less than significant with mitigation***.

Questions E-F

The Proposed Project is not located near an airport or airstrip. ***No impact*** would occur.

FINDINGS

It was determined that implementation of the Proposed Project could result in impacts to the existing noise environment, which would be *less than significant with mitigation*. This issue will be addressed in **Section 3.6** of the EIR.

xii. POPULATION AND HOUSING	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Induce substantial population growth in an area, either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through the extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

The location of the Proposed Project is primarily rural with limited commercial districts in the town of Guerneville. The Proposed Project entails the construction of a pipeline to provide recycled water to serve agricultural, municipal, and other users in the Russian River Valley and Green Valley areas. The Proposed Project would not increase the capacity of the WWTP. The WWTP boundaries are located entirely within the Russian River planning area of the General Plan, which according to ABAG had a population of 15,800 in the year 2005 (ABAG, 2007). The District provides wastewater collection, treatment, and disposal services to approximately 3,315 parcels within its service areas boundaries.

IMPACT DISCUSSION

Question A

The purpose of the Proposed Project is to provide an expanded land disposal system that can reliably accommodate reclamation season discharge volumes. Implementation of the Proposed Project would not result in a direct increase in population or housing. The Proposed Project is designed to serve growth controlled by the General Plan and local ordinances. No additional indirect impacts to population and housing would occur as a result of the Proposed Project beyond those identified in the Sonoma County General Plan EIR.

Questions B and C

The Proposed Project would not displace existing housing or residents. **No impact** would occur to existing housing in the area.

FINDINGS

Implementation of the Proposed Project would have **no impact** on population and housing. Growth inducing impacts will be addressed in **Section 4.0** of the EIR.

FINDINGS

Implementation of the Proposed Project would have ***no impact*** on population and housing. Growth inducing impacts will be addressed in **Section 4.0** of the EIR.

<u>xiii. PUBLIC SERVICES</u>	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service rations, response time or other performance objectives for any of the public services:				
a) Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Police Protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

Fire Protection

Fire protection in the region of the project area is provided by the Russian River Fire Protection District and volunteer fire departments at 14100 Woods Armstrong Road, Guerneville, and Forestville Fire Protection District at 6554 Mirabel Road, Forestville. The area in the vicinity of the project site is considered to have a high to very high potential for large wilderness fires. The California Department of Forestry is responsible for fighting wilderness fires.

Law Enforcement

The Sonoma County Sheriff Department (SCSD) provides law enforcement in the project region. The SCSD main office is located at 2796 Ventura Avenue, Santa Rosa, and the nearest substation is located within the project region at 1st and Church streets, Guerneville. The SCSD has 275 sworn deputy sheriffs and a staff of 725 employees.

Schools

The Guerneville School District and West Sonoma County High School District provide public education services from kindergarten through 12th grade within the region of the Proposed Project. Kindergarten through 8th grade attend Guerneville Elementary School, and grades 9 through 12 attend El Molino High School in Forestville.

Guerneville School is located at 14630 Armstrong Woods Road, which would be adjacent to the construction of the Proposed Project along Armstrong Woods Road. El Molino High School is approximately 0.8 miles south of the Alignment 2 project site in Forestville.

Parks

There are public beaches and parks located along the Russian River adjacent to the pipeline route for Alignment 2.

Power and Natural Gas

Electricity and natural gas are supplied to the project site and surrounding area by the Pacific Gas and Electric Company (PG&E) via underground distribution pipelines and transmission lines.

Communications

Pacific Bell provides telephone communication services to the project area.

IMPACT DISCUSSION

Questions A through E

No substantial adverse physical impacts associated with the degradation of public service levels or performance objectives would occur as a result of the Proposed Project. Implementation of the Proposed Project would have a ***less-than-significant*** impact on Public Services

FINDINGS

Implementation of the Proposed Project would have a ***less-than-significant*** impact on Public Services. These issues ***will not be addressed*** in the EIR.

xiv. RECREATION	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

According to the General Plan Update, the project sites (WWTP, pipeline routes, storage tank sites, and remote booster pump station) are not located within existing parks or designated recreation areas. There are public beaches and parks located along the Russian River adjacent to the pipeline route for Alignment 2.

IMPACT DISCUSSION

Questions A-B

The Proposed Project is a utility project that would not increase use of cause expansion of parks or other recreational facilities. *No impact* would occur.

FINDINGS

Implementation of the Proposed Project would have *no impact* on recreational resources. These issues *will not be addressed* in the EIR.

xv. TRANSPORTATION/TRAFFIC	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Cause an increase in traffic, which is substantial in relation to the existing traffic load and capacity of the street system (i.e., result in a substantial increase on either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Result in inadequate parking capacity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

Affected Roadways

State Route 116 (Guerneville Highway) is a two-lane highway that originates off State Route 1 (SR-1), approximately one mile south of Jenner. SR-116 traverses east to Guerneville where it heads southeast ending in Cotati, outside Rohnert Park. Approximately 28 miles of SR-116, from SR-1 to Sebastopol, is designated as a scenic highway. SR-116 is designated a rural principal arterial by the General Plan Update.

Neeley Road, which originates off SR-116 in Guerneville, is the main roadway supplying the WWTP and is designated as an urban minor collector in the General Plan Update. The majority of Neeley Road is a two-lane road.

May's Canyon Road starts at SR-116 south of the Guerneville Bridge and loops southeast for approximately 2.7 miles, ending at SR-166. May's Canyon Road is designated, as an urban minor collector in the General Plan Update.

Green Valley Road winds southwest through Sonoma County, beginning at SR-116 approximately one mile south of May's Canyon Road. The General Plan Update designates Green Valley Road as an urban major collector.

Vine Hill Road begins on Laguna Road and extends south to SR-116, passing Green Valley Road. The General Plan designates Vine Hill Road as a rural minor collector.

River Road begins at SR-116 and continues along the north side of the river. The General Plan Update designates River Road as an urban principal arterial for about 1.5 mile from SR-116, and then a rural principal arterial.

Trenton Road is a small access road, which begins on River Road and runs parallel to it, ending back on River Road. Trenton Road is designated as an urban minor collector by the General Plan Update.

Laguna Road intersects Trenton Road and runs south to SR-116. Laguna Road is designated as a rural major collector in the General Plan Update.

Armstrong Wood Road intersects SR-116 just east of Guerneville and proceeds north. In the General Plan Update, Armstrong Wood Road is designated as a rural major collector.

Watson Road extends west from Armstrong Wood Road to a dead end. In the General Plan Update, Watson Road is designated as a rural minor collector.

Martinelli Road extends south from River Road, approximately one mile northwest of Vine Hill Road. In the General Plan Update, Martinelli Road is designated as a rural minor collector.

IMPACT DISCUSSION

Questions A-B and E

Construction of the Proposed Project would temporarily increase the use of the roads listed above in the **Setting**. The increase in traffic associated with the construction of the Proposed Project could affect private and public traffic flow within the project region. This impact would be *less than significant with mitigation*.

Question C

The Proposed Project would have *no impact* on air traffic.

Question D

The Proposed Project would not change the design of existing roadways and does not include any operational features that would impact traffic or increase hazards. *No impact*.

Question F

The Proposed Project would not impact parking capacity, as it would not result in any additional operational traffic. *No impact*.

Question G

The Proposed Project would not conflict with adopted plans supporting alternative transportation. *No impact*.

FINDINGS

It was determined that operation of the Proposed Project would not increase traffic or affect roadway service levels. Temporary impacts to the surface and service levels of the roadways during construction of the Proposed Project would be *less than significant with mitigation*. These issues will be addressed in **Section 3.7, Transportation/Traffic** of the EIR.

xvi. UTILITIES AND SERVICE SYSTEMS	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING

The Proposed Project is part of the WWTP and during operation would not require any public water, solid waste, or wastewater services. During construction some water, wastewater, and solid waste utilities and services would be necessary; however, these service would be diminutive and short-term.

IMPACT DISCUSSION

Questions A -G

The Proposed Project is a utility project designed to ensure the WWTP operates in compliance with NCRWQCB requirements for disposal of treated wastewater. The Proposed Project would not create growth in the area, which would cause a need for additional water or wastewater facilities. The Proposed Project would include a fully enclosed pipeline and would not require any additional drainage facilities. The Proposed Project would not use any water from sources other than treated water from the existing WWTP. The project would not produce any solid waste.

FINDINGS

It was determined ***no impact*** on utilities and service systems would occur as a result of the Proposed Project. This issue ***will not be addressed*** in the EIR.

xvii. MANDATORY FINDINGS OF SIGNIFICANCE	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probably future projects)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Does the project have environment effects, which will cause substantial adverse effects on human beings, either directly or indirectly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FINDINGS

The Proposed Project has the potential to cause impacts within the specific issue areas identified above, which would be *less than significant with mitigation*. Areas of concern identified throughout this initial study shall be fully analyzed in **Section 3.0** of the EIR. Implementation of the Proposed Project also has the potential to induce growth within the region and cumulatively impact the surrounding environment. Areas of concern regarding growth-inducing and cumulative impacts will be fully analyzed in **Section 4.0** and **Section 5.0**, respectively, of the EIR.

V. REFERENCES

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ATTACHMENT 1

EDR REPORTS



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Russian River Alt 1
Oregon Canyon Road
Guerneville, CA 95436**

Inquiry Number: 1822500.1s

December 20, 2006

The Standard in Environmental Risk Management Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

OREGON CANYON ROAD
GUERNEVILLE, CA 95436

COORDINATES

Latitude (North):	38.461400 - 38° 27' 41.0"
Longitude (West):	122.945000 - 122° 56' 42.0"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	504798.6
UTM Y (Meters):	4256805.0
Elevation:	520 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	38122-D8 CAMP MEEKER, CA
Most Recent Revision:	1999

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
Delisted NPL.....	National Priority List Deletions
NPL RECOVERY.....	Federal Superfund Liens
CERCLIS.....	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP.....	CERCLIS No Further Remedial Action Planned
CORRACTS.....	Corrective Action Report
RCRA-TSDF.....	Resource Conservation and Recovery Act Information
RCRA-LQG.....	Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

RCRA-SQG.....	Resource Conservation and Recovery Act Information
ERNS.....	Emergency Response Notification System
HMIRS.....	Hazardous Materials Information Reporting System
US ENG CONTROLS.....	Engineering Controls Sites List
US INST CONTROL.....	Sites with Institutional Controls
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
US BROWNFIELDS.....	A Listing of Brownfields Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
ODI.....	Open Dump Inventory
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites.....	Historical Calsites Database
CA BOND EXP. PLAN.....	Bond Expenditure Plan
SCH.....	School Property Evaluation Program
Toxic Pits.....	Toxic Pits Cleanup Act Sites
SWF/LF.....	Solid Waste Information System
CA WDS.....	Waste Discharge System
WMUDS/SWAT.....	Waste Management Unit Database
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
SWRCY.....	Recycler Database
LUST.....	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST.....	Facility Inventory Database
SLIC.....	Statewide SLIC Cases
UST.....	Active UST Facilities
HIST UST.....	Hazardous Substance Storage Container Database
AST.....	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST.....	SWEEPS UST Listing
CHMIRS.....	California Hazardous Material Incident Report System
DEED.....	Deed Restriction Listing
VCP.....	Voluntary Cleanup Program Properties
CLEANERS.....	Cleaner Facilities
WIP.....	Well Investigation Program Case List
CDL.....	Clandestine Drug Labs
RESPONSE.....	State Response Sites
HAZNET.....	Facility and Manifest Data
EMI.....	Emissions Inventory Data
ENVIROSTOR.....	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV.....	Indian Reservations
--------------------	---------------------

EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

NOTIFY 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>MT. GILEAD BIBLE CONFEREN</i>	<i>13485 GREEN VALLEY</i>	<i>1/2 - 1 ESE</i>	<i>1</i>	<i>6</i>

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

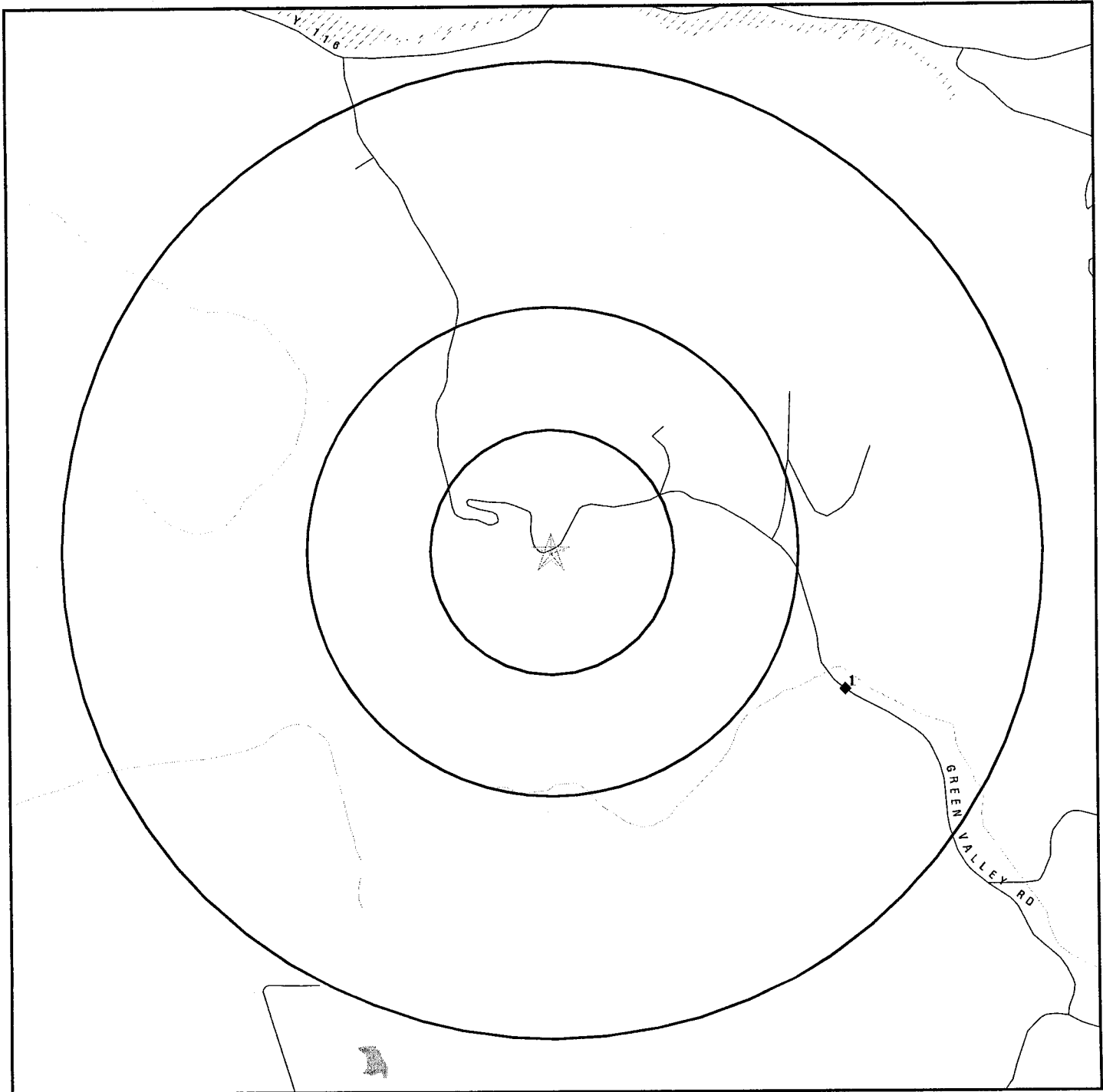
Site Name

CITY OF SEBASTOPOL - WELL #6
IMPERIAL FRENCH CLEANERS
SCWA RUSSIAN RIVER WWTP
VACU-DRY
SEBASTOPOL SHELL
VACU-DRY (FORMER)
FACILITY 49-000-000153
ROBERT D CROSS CROSS TRUCKING
RIVER RD ON TRENTON HILLSBURG RD
VILLAGE PARK MOBILE HOME PARK
HEALDSBURG DISPOSAL SITE

Database(s)

SWEEPS UST
CLEANERS
LUST
UST
UST
UST
UST
RCRA-SQG, FINDS
ERNS
SLIC
ENVIROSTOR

OVERVIEW MAP - 1822500.1s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Landfill Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

■ Oil & Gas pipelines

■ 100-year flood zone

■ 500-year flood zone

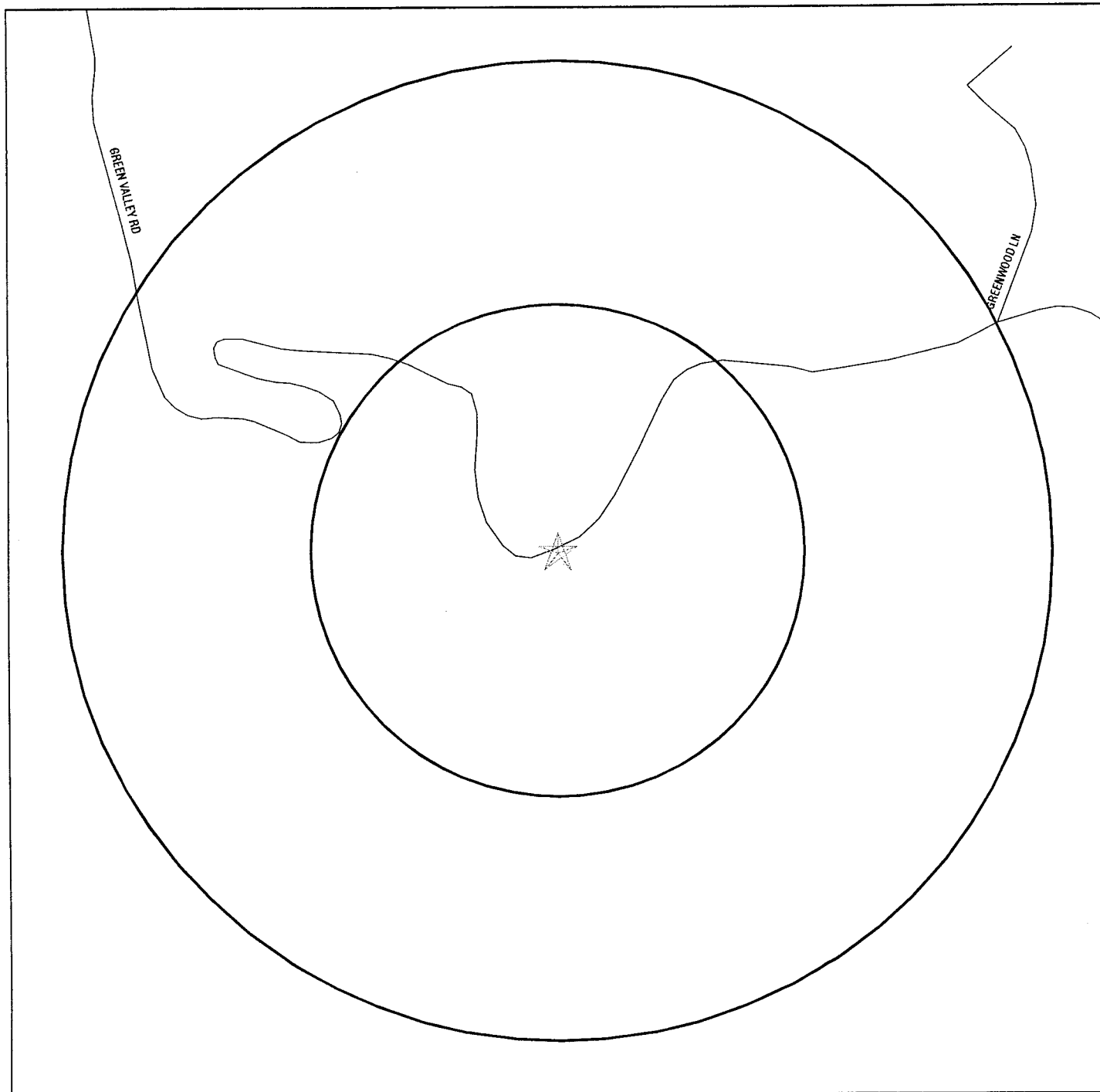
■ Areas of Concern

0 1/4 1/2 1 Miles

SITE NAME: Russian River Alt 1
 ADDRESS: Oregon Canyon Road
 Guerneville CA 95436
 LAT/LONG: 38.4614 / 122.9450

CLIENT: AES
 CONTACT: Pete Connelly
 INQUIRY #: 1822500.1s
 DATE: December 20, 2006 7:46 pm

DETAIL MAP - 1822500.1s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ Sensitive Receptors

■ National Priority List Sites

■ Landfill Sites

■ Dept. Defense Sites

0 1/16 1/8 1/4 Miles

■ Indian Reservations BIA

■ Oil & Gas pipelines

■ 100-year flood zone

■ 500-year flood zone

■ Areas of Concern



SITE NAME: Russian River Alt 1
ADDRESS: Oregon Canyon Road
Guerneville CA 95436
LAT/LONG: 38.4614 / 122.9450

CLIENT: AES
CONTACT: Pete Connelly
INQUIRY #: 1822500.1s
DATE: December 20, 2006 7:46 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP	TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	1	NR	1
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP	TP	NR	NR	NR	NR	NR	0
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET	TP	TP	NR	NR	NR	NR	NR	0
EMI	TP	TP	NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
ESE
1/2-1
3473 ft.
MT. GILEAD BIBLE CONFEREN
13485 GREEN VALLEY
SEBASTOPOL, CA 95472

Notify 65
Cortese
U000068844
N/A

Relative:
Lower

Notify 65:

Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 95472-9714

Actual:
302 ft.

Cortese:

Region: CORTESE
Facility Addr2: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FORESTVILLE	S100186365	HEALDSBURG DISPOSAL SITE	116 HWY 16	95436	ENVIROSTOR
FORESTVILLE	91220256	RIVER RD ON TRENTON HILLSBURG RD	RIVER RD ON TRENTON HILLSBURG RD	95436	ERNS
GUERNEVILLE	S104857227	SCWA RUSSIAN RIVER WWTP	NEELEY ROAD 18400		LUST
SEBASTOPOL	1000886234	ROBERT D CROSS CROSS TRUCKING	2064 HWY 116 NORTH	95472	RCRA-SQG, FINDS
SEBASTOPOL	U004050463	VACU-DRY	2064 HWY 116 N. BLD 2 STE 24 & 25	95472	UST
SEBASTOPOL	S107620009	VILLAGE PARK MOBILE HOME PARK	6665 HIGHWAY 12	95472	SLIC
SEBASTOPOL	U0038805045	SEBASTOPOL SHELL	778 SOUTH GRAVENSTEIN HIGHWAY	95472	UST
SEBASTOPOL	U004049990	VACU-DRY (FORMER)	1365 GRAVENSTEIN HWY	95472	UST
SEBASTOPOL	U004050025	FACILITY 49-000-000153	5001 GRAVENSTEIN HWY	95472	UST
SEBASTOPOL	S106167283	IMPERIAL FRENCH CLEANERS	732 GRAVENSTIEN HIGHWAY	95472	CLEANERS
SEBASTOPOL	S106924652	CITY OF SEBASTOPOL - WELL #6	933 S GRAVENSTIEN HWY	95472	SWEEPS UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 11/17/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 08/09/2006	Source: EPA
Date Data Arrived at EDR: 09/21/2006	Telephone: 703-603-8960
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 12/19/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/10/2006	Source: EPA
Date Data Arrived at EDR: 10/25/2006	Telephone: 703-603-8960
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 12/18/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 10/11/2006	Telephone: 800-424-9346
Date Made Active in Reports: 12/13/2006	Last EDR Contact: 12/04/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 03/05/2007
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 12/13/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 08/01/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/18/2006	Telephone: 202-366-4555
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 11/10/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 02/05/2007
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/20/2006	Telephone: 202-528-4285
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/17/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/20/2006	Telephone: 202-566-2777
Date Made Active in Reports: 12/13/2006	Last EDR Contact: 12/11/2006
Number of Days to Update: 54	Next Scheduled EDR Contact: 03/12/2007
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 11/17/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/07/2006	Source: EPA
Date Data Arrived at EDR: 10/13/2006	Telephone: 703-416-0223
Date Made Active in Reports: 12/13/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 61	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 12/18/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 12/19/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/19/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 10/27/2006	Telephone: 202-566-1667
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 12/18/2006
Number of Days to Update: 26	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 10/19/2006	Source: EPA
Date Data Arrived at EDR: 10/27/2006	Telephone: 202-566-1667
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 12/18/2006
Number of Days to Update: 26	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 11/07/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 11/29/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 02/05/2007
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/19/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 10/31/2006	Telephone: 301-415-7169
Date Made Active in Reports: 12/13/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/09/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/27/2006	Telephone: 303-231-5959
Date Made Active in Reports: 11/27/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 61	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/18/2006
Date Made Active in Reports: 12/13/2006
Number of Days to Update: 56

Source: EPA
Telephone: N/A
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/15/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 11/27/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 09/13/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 22

Source: Integrated Waste Management Board
Telephone: 916-341-6320
Last EDR Contact: 12/13/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006
Date Data Arrived at EDR: 09/21/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 34

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 12/19/2006
Next Scheduled EDR Contact: 03/19/2007
Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 12/07/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 866-480-1028
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 09/30/2006	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 10/25/2006	Telephone: 916-464-3291
Date Made Active in Reports: 11/28/2006	Last EDR Contact: 10/25/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-346-7491
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 951-782-4130
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 11/07/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/05/2007
	Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-467-2980
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 10/17/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 11/16/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 12/04/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 03/05/2007
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Last EDR Contact: 11/16/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 11/16/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 11/16/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006	Source: California Region Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 04/06/2006	Telephone: 951-782-3298
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 08/31/2006	Telephone: 858-467-2980
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/27/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/26/2007
	Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/11/2006	Source: SWRCB
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-480-1028
Date Made Active in Reports: 11/13/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 11/02/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/03/2006	Telephone: 916-341-5712
Date Made Active in Reports: 12/08/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 11/20/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/29/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 02/26/2007
	Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 10/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 10/31/2006	Telephone: 213-576-6726
Date Made Active in Reports: 11/28/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 11/20/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Varies

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 11/10/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 61

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/11/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 58

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2006
Date Data Arrived at EDR: 10/04/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 09/06/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/06/2006
Date Data Arrived at EDR: 10/04/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 35

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/21/2005
Date Made Active in Reports: 02/28/2005
Number of Days to Update: 38

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 08/24/2006	Source: EPA Region 4
Date Data Arrived at EDR: 09/11/2006	Telephone: 404-562-8677
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 58	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 08/24/2006	Source: EPA Region 4
Date Data Arrived at EDR: 09/11/2006	Telephone: 404-562-9424
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 58	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 09/06/2006	Source: EPA Region 9
Date Data Arrived at EDR: 10/04/2006	Telephone: 415-972-3368
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 09/06/2006	Source: EPA Region 7
Date Data Arrived at EDR: 10/04/2006	Telephone: 913-551-7003
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 08/30/2006	Source: EPA Region 8
Date Data Arrived at EDR: 09/06/2006	Telephone: 303-312-6137
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 12/02/2004	Source: EPA Region 5
Date Data Arrived at EDR: 12/29/2004	Telephone: 312-886-6136
Date Made Active in Reports: 02/04/2005	Last EDR Contact: 11/17/2006
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 09/11/2006	Source: EPA Region 10
Date Data Arrived at EDR: 09/11/2006	Telephone: 206-553-2857
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 58	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 61

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 71

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/26/2006
Date Data Arrived at EDR: 10/27/2006
Date Made Active in Reports: 11/28/2006
Number of Days to Update: 32

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 10/26/2006
Date Data Arrived at EDR: 10/27/2006
Date Made Active in Reports: 11/13/2006
Number of Days to Update: 17

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 11/27/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/20/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/31/2006
Date Data Arrived at EDR: 10/30/2006
Date Made Active in Reports: 11/28/2006
Number of Days to Update: 29

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 11/15/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 12/11/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 12/14/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 11/21/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 11/13/2006
Date Data Arrived at EDR: 11/13/2006
Date Made Active in Reports: 12/12/2006
Number of Days to Update: 29

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 12/06/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 12/06/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 12/06/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 12/19/2006
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 11/09/2006
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 11/28/2006
Number of Days to Update: 18

Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 10/16/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/08/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 41

Source: Health Services Agency
Telephone: 951-358-5055
Last EDR Contact: 10/16/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/18/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 48

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 11/20/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 12/18/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 12/18/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005	Source: Santa Clara Valley Water District
Date Data Arrived at EDR: 03/30/2005	Telephone: 408-265-2600
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 09/25/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006	Source: Department of Environmental Health
Date Data Arrived at EDR: 10/02/2006	Telephone: 408-918-3417
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/25/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Varies

Hazardous Material Facilities

Date of Government Version: 09/07/2006	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 09/08/2006	Telephone: 408-277-4659
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 12/04/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 03/05/2007
	Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 11/01/2006	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 11/13/2006	Telephone: 707-784-6770
Date Made Active in Reports: 12/20/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 11/01/2006	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 11/13/2006	Telephone: 707-784-6770
Date Made Active in Reports: 12/12/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 10/23/2006	Source: Department of Health Services
Date Data Arrived at EDR: 10/24/2006	Telephone: 707-565-6565
Date Made Active in Reports: 11/28/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Quarterly

SUTTER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/13/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/16/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 33

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/13/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 09/27/2006
Date Data Arrived at EDR: 11/01/2006
Date Made Active in Reports: 12/12/2006
Number of Days to Update: 41

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006
Date Data Arrived at EDR: 08/01/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 23

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 12/11/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 11/01/2006
Date Data Arrived at EDR: 11/13/2006
Date Made Active in Reports: 12/13/2006
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/29/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/11/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 04/11/2006
Date Data Arrived at EDR: 10/31/2006
Date Made Active in Reports: 12/18/2006
Number of Days to Update: 48

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 12/18/2006
Next Scheduled EDR Contact: 03/19/2007
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

RUSSIAN RIVER ALT 1
OREGON CANYON ROAD
GUERNEVILLE, CA 95436

TARGET PROPERTY COORDINATES

Latitude (North):	38.46140 - 38° 27' 41.0"
Longitude (West):	122.945 - 122° 56' 42.0"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	504798.6
UTM Y (Meters):	4256805.0
Elevation:	520 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38122-D8 CAMP MEEKER, CA
Most Recent Revision:	1999

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

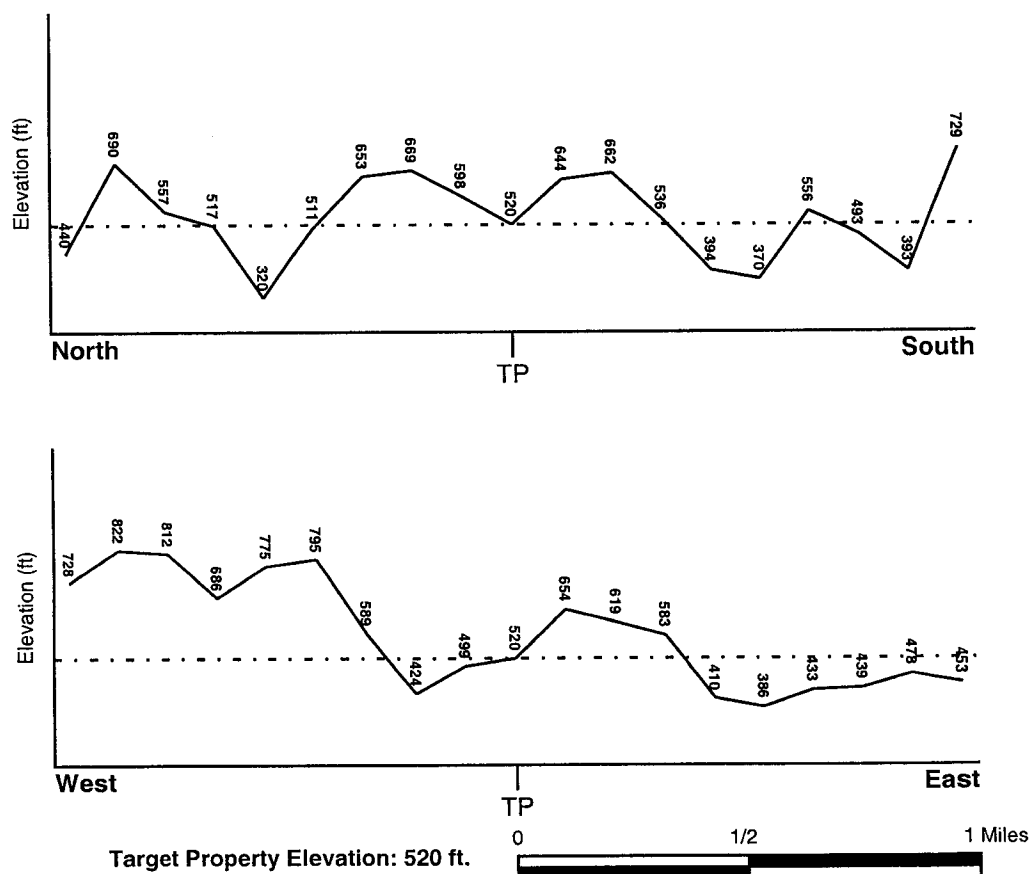
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County
SONOMA, CA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0603750655B

Additional Panels in search area: 0603750660B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
CAMP MEEKER

NWI Electronic
Data Coverage
Not Available

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Cenozoic
System: Tertiary
Series: Pliocene
Code: Tp (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CASABONNE

Soil Surface Texture: gravelly - loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 40 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly - loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
2	11 inches	26 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
3	26 inches	36 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
4	36 inches	49 inches	gravelly - clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
5	49 inches	53 inches	unweathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: extremely gravelly - sandy loam
loam
gravelly - sandy loam

Surficial Soil Types: extremely gravelly - sandy loam
loam
gravelly - sandy loam

Shallow Soil Types: very cobbly - loam
very gravelly - sandy loam
extremely gravelly - loam
gravelly - sandy loam
very gravelly - clay loam
very gravelly - loam
gravelly - clay loam
clay
loam

Deeper Soil Types: extremely gravelly - loamy sand
weathered bedrock

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

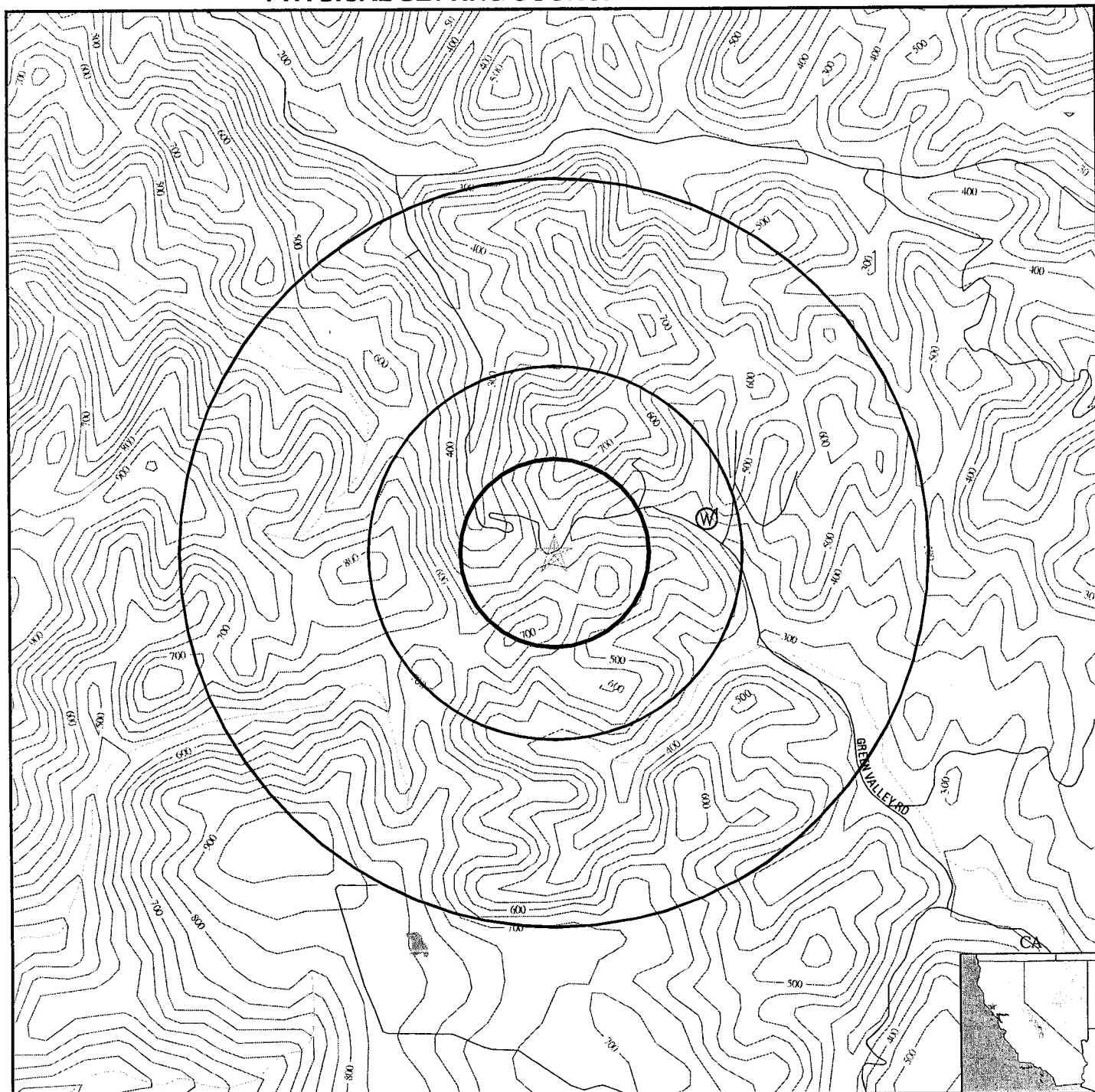
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	7461	1/4 - 1/2 Mile ENE

PHYSICAL SETTING SOURCE MAP - 1822500.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Russian River Alt 1
 ADDRESS: Oregon Canyon Road
 Guerneville CA 95436
 LAT/LONG: 38.4614 / 122.9450

CLIENT: AES
 CONTACT: Pete Connelly
 INQUIRY #: 1822500.1s
 DATE: December 20, 2006 7:46 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
ENE
1/4 - 1/2 Mile
Lower

CA WELLS 7461

Water System Information:

Prime Station Code: 07N/10W-11L01 M
FRDS Number: 4900582001
District Number: 79
Water Type: Well/Groundwater
Source Lat/Long: 382746.0 1225611.0
Source Name: WELL 01
System Number: 4900582
System Name: THOMAS LARKIN WOODS
Organization That Operates System:

User ID: 49C
County: Sonoma
Station Type: WELL/AMBNT/MUN/INTAKE
Well Status: Active Raw
Precision: 100 Feet (one Second)

Not Reported
Pop Served: Unknown, Small System
Area Served: Not Reported

Connections: Unknown, Small System

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95436	2	0	0.00

Federal EPA Radon Zone for SONOMA County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95436

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.000 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW[®] Information System

Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Dowling Associates, Inc.

Transportation Planning, Engineering, and Research

December 13, 2006

Josh Ferris
AES
2021 N Street, Suite 200
Sacramento, CA 95814

Subject: Contract Amendment for University Park

P05-083

Dear Mr. Ferris:

Our contract with you for the University Park project provides for a fee ceiling of \$58,414.00. This letter serves as our proposal to perform additional traffic analysis for the proposed project. Based upon requests from AES, additional analysis will need to be performed for the University Park project. The specific tasks that will be conducted will include the following:

Scope of Work

Modeling

Dowling Associates, Inc. will determine if Harbor Pointe and the Parks at Southport zones have project specific land uses or the general plan build-out land uses in the cumulative City of West Sacramento model. If the land use in the model is project specific than, Dowling Associates, Inc. will change the land use back to the general plan build-out land use and re-run the cumulative model.

Level of Service

Dowling Associates, Inc. will use the DKS post processor to develop new Cumulative (No Project) AM and PM volumes and then to determine the weekday AM and PM peak hour level of service at the same study intersections, roadway segments and freeway facilities as stated in the November 15, 2005 scope of work, under the following scenarios:

- Cumulative (No Project),
- Cumulative Plus Project Option 1, and
- Cumulative Plus Project Option 2.

Mitigation Measures

Mitigation measures for the project-generated impacts with the newly developed cumulative volumes for the two plus project conditions will be determined under established criteria and goals of the City of West Sacramento and Caltrans. If there are any significant impacts, the recommended mitigation improvements will be presented.

Dowling will attempt to initially mitigate the impacted study intersections along Jefferson Boulevard using the Traffix software. If no feasible mitigation measures are found, then the Synchro software will be used to try to develop other feasible mitigation measures.

Draft and Final Report

Dowling will document the approach, methodology, and assumptions of the additional analysis and summarize the findings, analysis and recommendations in a draft report for review. After receiving one consolidated set of comments from AES and the City of West Sacramento, a final report will be produced that will address the comments.

Optional Task

Dowling, if requested by AES, would determine the AM and PM peak hour level of service at the study intersections, roadway segments, and freeway facilities as stated in the November 15, 2005 scope of work, under the following scenarios:

- EPAP Plus Project Option 1 Plus River Park Plus Yarborough,
- EPAP Plus Project Option 2 Plus River Park Plus Yarborough,
- Cumulative Plus Project Option 1 Plus River Park Plus Yarborough, and
- Cumulative Plus Project Option 2 Plus River Park Plus Yarborough.

No mitigation measures will be developed for impacted intersections. The level of service will be calculated at all study facilities for only comparison purposes.

Budget Amendment

Based on the work scope described above, our estimated budget for this study is \$18,178. This increase would raise our total fee ceiling for this project from its current \$58,414 to \$76,592. Please see below for the breakdown of man-hours needed to perform all the tasks discussed above. If you should have any questions please feel free to contact myself or Carol Saucedo.

Tasks	Principal Associate	Senior Engineer	Associate Engineer	Graphic Artist	Direct Expenses	Task Costs
	\$170	\$160	\$134	\$65		
1.0 Modeling	-	16.0	-	-	-	\$2,560
2.0 Level Of Service	-	8.0	28.0	6.0	-	\$5,422
3.0 Mitigation Measures	-	-	40.0	4.0	-	\$5,620
4.0 Draft & Final Report	8.0	-	24.0	-	-	\$4,576
Hrs:	8	24	92	10		
Cost:	\$1,360	\$3,840	\$12,328	\$650	\$0	\$18,178
Optional Task:						\$7,504
Total (including optional task)						\$25,682

Mr. Josh Ferris
December 13, 2006
Page 3

Please countersign below and return to us a copy if the above is acceptable. Please give me a call if you have any questions.

Accepted For:
Dowling Associates



Richard G. Dowling, Ph.D., P.E.
President
Date: December 13, 2006

Accepted For:
AES

Date:



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Russain River Alt B
River Road
Guerneville, CA 95446**

Inquiry Number: 1822502.1s

December 20, 2006

The Standard in Environmental Risk Management Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVER ROAD
GUERNEVILLE, CA 95446

COORDINATES

Latitude (North): 38.516800 - 38° 31' 0.5"
Longitude (West): 122.961100 - 122° 57' 40.0"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 503391.3
UTM Y (Meters): 4262951.5
Elevation: 399 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38122-E8 GUERNEVILLE, CA
Most Recent Revision: 1999

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL RECOVERY	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

RCRA-SQG.....	Resource Conservation and Recovery Act Information
ERNS.....	Emergency Response Notification System
HMIRS.....	Hazardous Materials Information Reporting System
US ENG CONTROLS.....	Engineering Controls Sites List
US INST CONTROL.....	Sites with Institutional Controls
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
US BROWNFIELDS.....	A Listing of Brownfields Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
ODI.....	Open Dump Inventory
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites.....	Historical Calsites Database
CA BOND EXP. PLAN.....	Bond Expenditure Plan
SCH.....	School Property Evaluation Program
Toxic Pits.....	Toxic Pits Cleanup Act Sites
SWF/LF.....	Solid Waste Information System
CA WDS.....	Waste Discharge System
WMUDS/SWAT.....	Waste Management Unit Database
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
SWRCY.....	Recycler Database
LUST.....	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST.....	Facility Inventory Database
SLIC.....	Statewide SLIC Cases
UST.....	Active UST Facilities
HIST UST.....	Hazardous Substance Storage Container Database
AST.....	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST.....	SWEEPS UST Listing
CHMIRS.....	California Hazardous Material Incident Report System
Notify 65.....	Proposition 65 Records
DEED.....	Deed Restriction Listing
VCP.....	Voluntary Cleanup Program Properties
CLEANERS.....	Cleaner Facilities
WIP.....	Well Investigation Program Case List
CDL.....	Clandestine Drug Labs
RESPONSE.....	State Response Sites
HAZNET.....	Facility and Manifest Data
EMI.....	Emissions Inventory Data
ENVIROSTOR.....	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV.....	Indian Reservations
--------------------	---------------------

EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

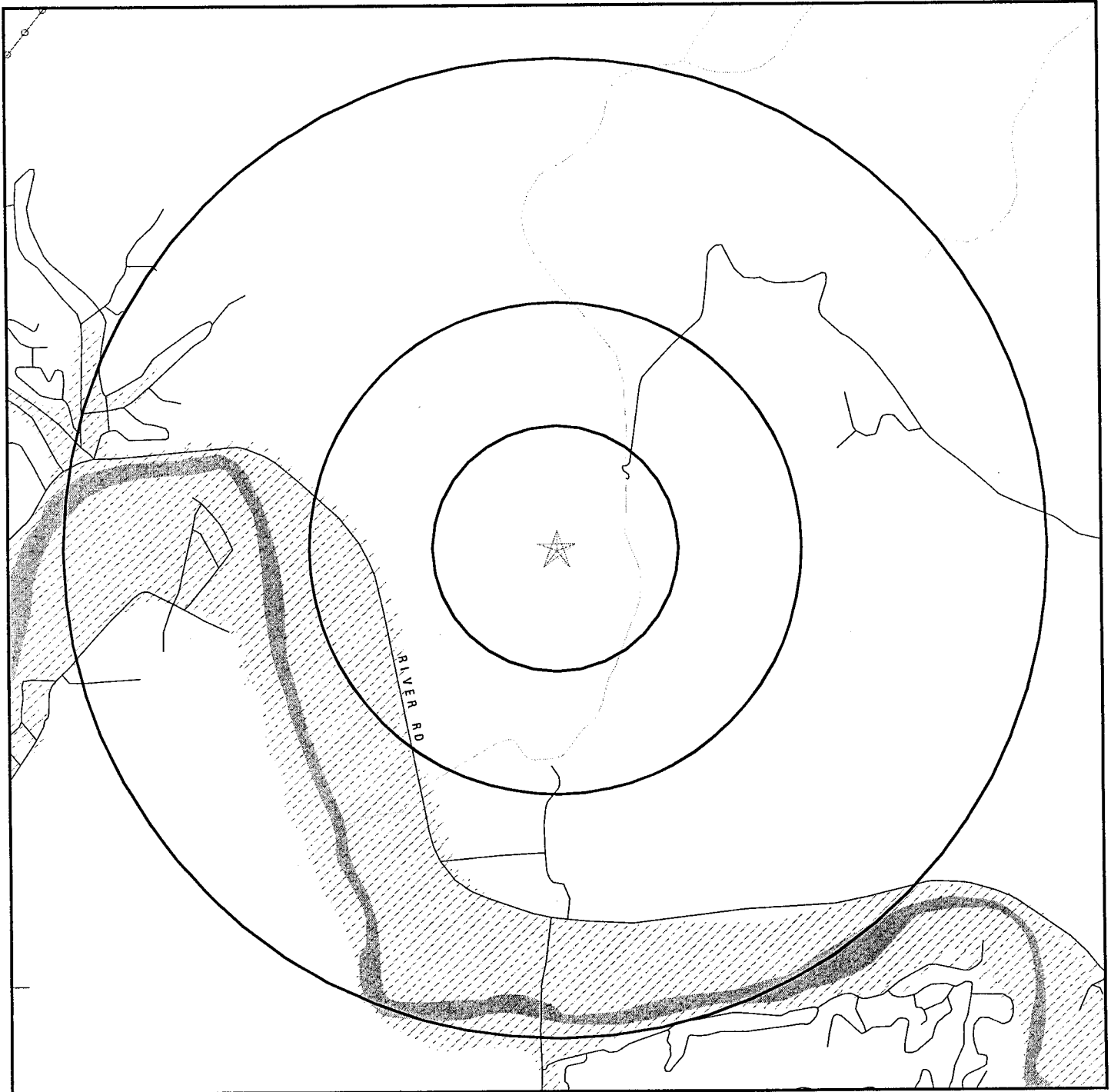
Site Name

FORESTVILLE B P
FIFES RESORT
RIVER RD B P
RUSSIAN RIVER FLOOD
SCWA RUSSIAN RIVER WWTP
FIFE'S RESORT
RUSSIAN RIVER MAIN PUMP STATIO
LEO J. CARANO
HEALDSBURG DISPOSAL SITE

Database(s)

SWEEPS UST
SWEEPS UST
SWEEPS UST
CERCLIS, FINDS
LUST
UST
HIST UST
HIST UST
ENVIROSTOR

OVERVIEW MAP - 1822502.1s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Landfill Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

~ Power transmission lines

~ Oil & Gas pipelines

■ 100-year flood zone

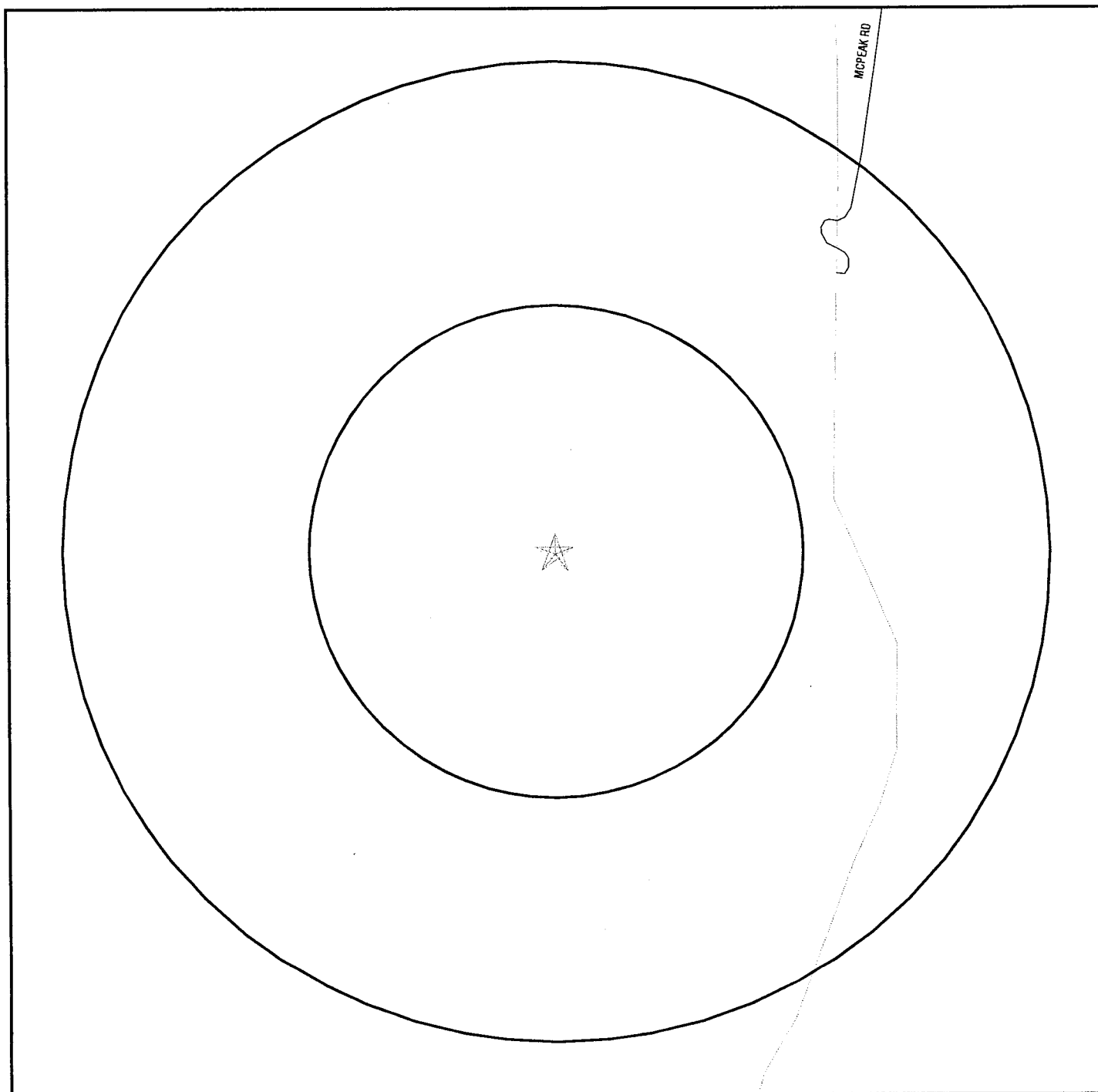
■ 500-year flood zone

■ Areas of Concern

SITE NAME: Russain River Alt B
ADDRESS: River Road
Guerneville CA 95446
LAT/LONG: 38.5168 / 122.9611

CLIENT: AES
CONTACT: Pete Connelly
INQUIRY #: 1822502.1s
DATE: December 20, 2006 7:47 pm

DETAIL MAP - 1822502.1s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

⬮ Sensitive Receptors

▨ National Priority List Sites

▨ Landfill Sites

▨ Dept. Defense Sites

▨ Indian Reservations BIA

~ Oil & Gas pipelines

▨ 100-year flood zone

▨ 500-year flood zone

▨ Areas of Concern

0 1/16 1/8 1/4 Miles



SITE NAME: Russain River Alt B
ADDRESS: River Road
Guerneville CA 95446
LAT/LONG: 38.5168 / 122.9611

CLIENT: AES
CONTACT: Pete Connelly
INQUIRY #: 1822502.1s
DATE: December 20, 2006 7:47 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO SITES FOUND

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FORESTVILLE	S100186385	HEALDSBURG DISPOSAL SITE	116 HWY 16	95436	ENVIROSTOR
FORESTVILLE	S106926323	FORESTVILLE B P	FIRST/FRONT	95436	SWEEPS UST
GUERNEVILLE	U001610062	RUSSIAN RIVER MAIN PUMP STATIO	HIGHWAY 116	95446	HIST UST
GUERNEVILLE	S106926177	FIFES RESORT	16467 HWY 116	95446	SWEEPS UST
GUERNEVILLE	U004050131	FIFE'S RESORT	16467 HIGHWAY 116	95446	UST
GUERNEVILLE	S104857227	SCWA RUSSIAN RIVER WWTP	NEELEY ROAD 18400	95446	LUST
GUERNEVILLE	S106931407	RIVER RD B P	15190 RIVER (A) RD	95446	SWEEPS UST
GUERNEVILLE	1000984380	RUSSIAN RIVER FLOOD	RUSSIAN RIVER	95446	CERCLIS, FINDS
PASO ROBLES	U001610059	LEO J. CARANO	SO RIVER RD, CRESTON STAR RT.	95446	HIST UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 11/17/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 08/09/2006	Source: EPA
Date Data Arrived at EDR: 09/21/2006	Telephone: 703-603-8960
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 12/19/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/10/2006	Source: EPA
Date Data Arrived at EDR: 10/25/2006	Telephone: 703-603-8960
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 12/18/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 10/11/2006	Telephone: 800-424-9346
Date Made Active in Reports: 12/13/2006	Last EDR Contact: 12/04/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 03/05/2007
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 12/13/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 08/01/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/18/2006	Telephone: 202-366-4555
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 11/10/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 02/05/2007
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/20/2006	Telephone: 202-528-4285
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 10/17/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/20/2006	Telephone: 202-566-2777
Date Made Active in Reports: 12/13/2006	Last EDR Contact: 12/11/2006
Number of Days to Update: 54	Next Scheduled EDR Contact: 03/12/2007
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 11/17/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/07/2006	Source: EPA
Date Data Arrived at EDR: 10/13/2006	Telephone: 703-416-0223
Date Made Active in Reports: 12/13/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 61	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 12/18/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 12/19/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/19/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 10/27/2006	Telephone: 202-566-1667
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 12/18/2006
Number of Days to Update: 26	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 10/19/2006	Source: EPA
Date Data Arrived at EDR: 10/27/2006	Telephone: 202-566-1667
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 12/18/2006
Number of Days to Update: 26	Next Scheduled EDR Contact: 03/19/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 11/07/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 11/29/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 02/05/2007
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/19/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 10/31/2006	Telephone: 301-415-7169
Date Made Active in Reports: 12/13/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/09/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/27/2006	Telephone: 303-231-5959
Date Made Active in Reports: 11/27/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 61	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/18/2006
Date Made Active in Reports: 12/13/2006
Number of Days to Update: 56

Source: EPA
Telephone: N/A
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/15/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 11/27/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 09/13/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 22

Source: Integrated Waste Management Board
Telephone: 916-341-6320
Last EDR Contact: 12/13/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006
Date Data Arrived at EDR: 09/21/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 34

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 12/19/2006
Next Scheduled EDR Contact: 03/19/2007
Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 12/07/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 866-480-1028
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 09/30/2006	Source: California Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 10/25/2006	Telephone: 916-464-3291
Date Made Active in Reports: 11/28/2006	Last EDR Contact: 10/25/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005	Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005	Telephone: 760-346-7491
Date Made Active in Reports: 06/29/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005	Source: California Regional Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 02/15/2005	Telephone: 951-782-4130
Date Made Active in Reports: 03/28/2005	Last EDR Contact: 11/07/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/05/2007
	Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001	Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001	Telephone: 858-467-2980
Date Made Active in Reports: 05/21/2001	Last EDR Contact: 10/17/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 11/16/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 12/04/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 03/05/2007
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Last EDR Contact: 11/16/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 11/16/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 11/16/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 11/27/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 11/13/2006
Number of Days to Update: 32

Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 11/02/2006
Date Data Arrived at EDR: 11/03/2006
Date Made Active in Reports: 12/08/2006
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 11/30/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 50

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 11/20/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 10/16/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006
Date Data Arrived at EDR: 10/05/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/29/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 10/25/2006
Date Data Arrived at EDR: 10/31/2006
Date Made Active in Reports: 11/28/2006
Number of Days to Update: 28

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/29/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 02/26/2007
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 11/20/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 02/05/2007
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/29/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 02/26/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 202-208-3710
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 11/10/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 02/05/2007
	Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/07/2006	Source: EPA Region 1
Date Data Arrived at EDR: 09/08/2006	Telephone: 617-918-1313
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 61	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/11/2006	Source: EPA Region 10
Date Data Arrived at EDR: 09/11/2006	Telephone: 206-553-2857
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 58	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/04/2006	Telephone: 415-972-3372
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/30/2006	Source: EPA Region 8
Date Data Arrived at EDR: 09/06/2006	Telephone: 303-312-6271
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/06/2006	Source: EPA Region 7
Date Data Arrived at EDR: 10/04/2006	Telephone: 913-551-7003
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 11/17/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 08/24/2006	Source: EPA Region 4
Date Data Arrived at EDR: 09/11/2006	Telephone: 404-562-8677
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 58	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 08/24/2006	Source: EPA Region 4
Date Data Arrived at EDR: 09/11/2006	Telephone: 404-562-9424
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 58	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 09/06/2006	Source: EPA Region 9
Date Data Arrived at EDR: 10/04/2006	Telephone: 415-972-3368
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 09/06/2006	Source: EPA Region 7
Date Data Arrived at EDR: 10/04/2006	Telephone: 913-551-7003
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 08/30/2006	Source: EPA Region 8
Date Data Arrived at EDR: 09/06/2006	Telephone: 303-312-6137
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

Date of Government Version: 12/02/2004	Source: EPA Region 5
Date Data Arrived at EDR: 12/29/2004	Telephone: 312-886-6136
Date Made Active in Reports: 02/04/2005	Last EDR Contact: 11/17/2006
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 09/11/2006	Source: EPA Region 10
Date Data Arrived at EDR: 09/11/2006	Telephone: 206-553-2857
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 58	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land A listing of underground storage tank locations on Indian Land.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 61

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 71

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/26/2006
Date Data Arrived at EDR: 10/27/2006
Date Made Active in Reports: 11/28/2006
Number of Days to Update: 32

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 10/26/2006
Date Data Arrived at EDR: 10/27/2006
Date Made Active in Reports: 11/13/2006
Number of Days to Update: 17

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 11/27/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/20/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/31/2006
Date Data Arrived at EDR: 10/30/2006
Date Made Active in Reports: 11/28/2006
Number of Days to Update: 29

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 11/15/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 12/11/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 12/14/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 11/21/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 11/13/2006
Date Data Arrived at EDR: 11/13/2006
Date Made Active in Reports: 12/12/2006
Number of Days to Update: 29

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 02/12/2007
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 12/06/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 12/06/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 12/06/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 12/19/2006
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 11/09/2006
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 11/28/2006
Number of Days to Update: 18

Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 10/16/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/08/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 41

Source: Health Services Agency
Telephone: 951-358-5055
Last EDR Contact: 10/16/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/18/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 48

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 11/20/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 12/18/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 12/18/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 11/01/2006
Date Data Arrived at EDR: 11/13/2006
Date Made Active in Reports: 12/20/2006
Number of Days to Update: 37

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 11/01/2006
Date Data Arrived at EDR: 11/13/2006
Date Made Active in Reports: 12/12/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 10/23/2006
Date Data Arrived at EDR: 10/24/2006
Date Made Active in Reports: 11/28/2006
Number of Days to Update: 35

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/13/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/16/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 33

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/13/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 09/27/2006
Date Data Arrived at EDR: 11/01/2006
Date Made Active in Reports: 12/12/2006
Number of Days to Update: 41

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006
Date Data Arrived at EDR: 08/01/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 23

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 12/11/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 11/01/2006
Date Data Arrived at EDR: 11/13/2006
Date Made Active in Reports: 12/13/2006
Number of Days to Update: 30

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/29/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/11/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 04/11/2006
Date Data Arrived at EDR: 10/31/2006
Date Made Active in Reports: 12/18/2006
Number of Days to Update: 48

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 12/18/2006
Next Scheduled EDR Contact: 03/19/2007
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

RUSSAIN RIVER ALT B
RIVER ROAD
GUERNEVILLE, CA 95446

TARGET PROPERTY COORDINATES

Latitude (North):	38.51680 - 38° 31' 0.5"
Longitude (West):	122.9611 - 122° 57' 40.0"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	503391.3
UTM Y (Meters):	4262951.5
Elevation:	399 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38122-E8 GUERNEVILLE, CA
Most Recent Revision:	1999

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

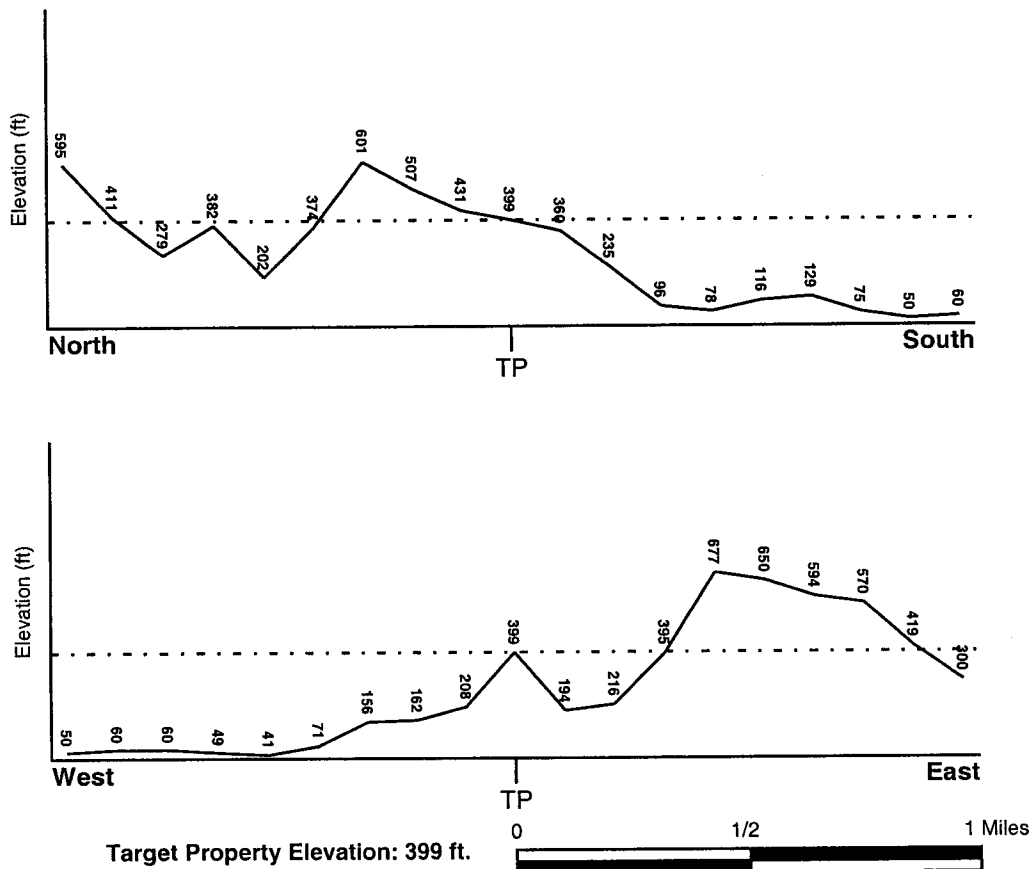
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County
SONOMA, CA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0603750515B

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
GUERNEVILLE

NWI Electronic
Data Coverage
Not Available

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
A1	1/2 - 1 Mile South	S
A2	1/2 - 1 Mile South	S

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Cenozoic
System: Tertiary
Series: Pliocene
Code: Tp (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CASABONNE

Soil Surface Texture: gravelly - loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 40 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly - loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
2	11 inches	26 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
3	26 inches	36 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
4	36 inches	49 inches	gravelly - clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
5	49 inches	53 inches	unweathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: extremely gravelly - sandy loam
loam
gravelly - sandy loam

Surficial Soil Types: extremely gravelly - sandy loam
loam
gravelly - sandy loam

Shallow Soil Types: very cobbly - loam
very gravelly - sandy loam
extremely gravelly - loam
gravelly - sandy loam
very gravelly - clay loam
very gravelly - loam
gravelly - clay loam
clay
loam

Deeper Soil Types: extremely gravelly - loamy sand
weathered bedrock

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 1822502.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Russain River Alt B
 ADDRESS: River Road
 Guerneville CA 95446
 LAT/LONG: 38.5168 / 122.9611

CLIENT: AES
 CONTACT: Pete Connelly
 INQUIRY #: 1822502.1s
 DATE: December 20, 2006 7:47 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
South
1/2 - 1 Mile
Lower

Site ID:
Groundwater Flow:
Shallow Water Depth:
Deep Water Depth:
Average Water Depth:
Date:

Not Reported
S
Not Reported
Not Reported
Not Reported
08/04/1999

AQUIFLOW 54042

A2
South
1/2 - 1 Mile
Lower

Site ID:
Groundwater Flow:
Shallow Water Depth:
Deep Water Depth:
Average Water Depth:
Date:

Not Reported
S
Not Reported
Not Reported
Not Reported
08/04/1999

AQUIFLOW 54001

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95446	1	0	0.00

Federal EPA Radon Zone for SONOMA County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SONOMA COUNTY, CA

Number of sites tested: 78

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.437 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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EDR® Environmental
Data Resources Inc

EDR Site Report™

**SCWA RUSSIAN RIVER WWTP
NEELEY ROAD 18400
GUERNEVILLE, CA**

Inquiry Number:

December 21, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of over 4 million government records from more than 600 federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases Searched and Update Information. Page 5

Name, source, update dates, contact phone number and description of each of the databases searched for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 SCWA RUSSIAN RIVER WWTP NEELEY ROAD 18400 GUERNEVILLE, CA EDR ID #S104857227
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	YES - p4
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility has reported leaking underground storage tank incidents

DATABASE: Leaking Petroleum Storage Tank Database (LUST)

SCWA RUSSIAN RIVER WWTP
NEELEY ROAD 18400
GUERNEVILLE, CA
EDR ID #S104857227

LUST:

Region:	1
Facility ID:	1TSO777
Staff Initials:	LOP

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

WASTE MANAGEMENT

RCRA: Resource Conservation and Recovery Act Information

Source: EPA

Telephone: 800-424-9346

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/13/2006
Date of Next Scheduled Update: 02/19/2007

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/15/2006
Date of Next Scheduled Update: 03/12/2007

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/04/2006
Date of Next Scheduled Update: 03/05/2007

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/27/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/04/2006
Date of Next Scheduled Update: 03/05/2007

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-566-0500

PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006
Database Release Frequency: Annually

Date of Last EDR Contact: 11/29/2006
Date of Next Scheduled Update: 02/05/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/19/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/02/2006
Date of Next Scheduled Update: 01/01/2007

CA AST: Aboveground Petroleum Storage Tank Facilities

Source: State Water Resources Control Board

Telephone: 916-341-5712

Registered Aboveground Storage Tanks.

Date of Government Version: 11/02/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/30/2006
Date of Next Scheduled Update: 01/29/2007

CA UST: Active UST Facilities

Source: SWRCB

Telephone: 866-480-1028

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/11/2006
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/12/2006
Date of Next Scheduled Update: 01/08/2007

CA LUST: Geotracker's Leaking Underground Fuel Tank Report

Source: State Water Resources Control Board

Telephone: 866-480-1028

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/12/2006
Date of Next Scheduled Update: 01/08/2007

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005
Database Release Frequency: Annually

Date of Last EDR Contact: 10/24/2006
Date of Next Scheduled Update: 01/22/2007

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 08/01/2006
Database Release Frequency: Annually

Date of Last EDR Contact: 10/18/2006
Date of Next Scheduled Update: 01/15/2007

WASTE DISPOSAL

NPL: National Priority List

Source: EPA

Telephone: Not reported

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 09/27/2006
Date Made Active at EDR: 11/22/2006
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/01/2006
Elapsed ASTM Days: 21
Date of Last EDR Contact: 11/01/2006

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: Not reported

Date of Government Version: 09/27/2006

Date Made Active at EDR: 11/22/2006

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/01/2006

Elapsed ASTM Days: 21

Date of Last EDR Contact: 11/01/2006

DELISTED NPL: National Priority List Deletions

Source: EPA

Telephone: Not reported

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 09/27/2006

Date Made Active at EDR: 11/22/2006

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/01/2006

Elapsed ASTM Days: 21

Date of Last EDR Contact: 11/01/2006

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-603-8960

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 08/09/2006

Date Made Active at EDR: 11/22/2006

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/21/2006

Elapsed ASTM Days: 62

Date of Last EDR Contact: 12/19/2006

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-603-8960

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/10/2006

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/18/2006

Date of Next Scheduled Update: 03/19/2007

ROD: Records Of Decision

Source: EPA

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/07/2006

Database Release Frequency: Annually

Date of Last EDR Contact: 10/02/2006

Date of Next Scheduled Update: 01/01/2007

NPL RECOVERY: Federal Superfund Liens

Source: EPA

Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991

Date Made Active at EDR: 03/30/1994

Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/02/1994

Elapsed ASTM Days: 56

Date of Last EDR Contact: 11/17/2006

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA SWF/LF (SWIS): Solid Waste Information System

Source: Integrated Waste Management Board

Telephone: 916-341-6320

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/13/2006
Date of Next Scheduled Update: 03/12/2007

MULTIMEDIA

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-566-0250

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004
Database Release Frequency: Annually

Date of Last EDR Contact: 12/19/2006
Date of Next Scheduled Update: 03/19/2007

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-4203

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004
Database Release Frequency: Annually

Date of Last EDR Contact: 11/07/2006
Date of Next Scheduled Update: 01/15/2007

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Database Release Frequency: N/A

Date of Last EDR Contact: 10/18/2006
Date of Next Scheduled Update: 01/15/2007

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/19/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/18/2006
Date of Next Scheduled Update: 03/19/2007

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-566-1667

Date of Government Version: 10/19/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/18/2006
Date of Next Scheduled Update: 03/19/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

FINDS: Facility Index System/Facility Registry System

Source: EPA

Telephone: Not reported

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/11/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/02/2006
Date of Next Scheduled Update: 01/01/2007

RMP: Risk Management Plans

Source: Environmental Protection Agency

Telephone: 202-564-8600

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 09/01/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 11/17/2006
Date of Next Scheduled Update: 02/19/2007

STORMWATER: Storm Water General Permits

Source: Environmental Protection Agency

Telephone: 202-564-0746

A listing of all facilities with Storm Water General Permits.

Date of Government Version: 06/02/2005
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/28/2006
Date of Next Scheduled Update: 01/01/2007

US ENG CONTROLS: Engineering Controls Sites List

Source: Environmental Protection Agency

Telephone: 703-603-8905

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 09/07/2006
Date of Next Scheduled Update: 10/02/2006

US INST CONTROL: Sites with Institutional Controls

Source: Environmental Protection Agency

Telephone: 703-603-8905

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 09/07/2006
Date of Next Scheduled Update: 10/02/2006

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

Source: EPA Region 1

Telephone: 617-918-1313

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/07/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 11/17/2006
Date of Next Scheduled Update: 02/19/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA HIST CAL-SITES: Historical Calsites Database

Source: Department of Toxic Substance Control

Telephone: 916-323-3400

The Calsites database contains potential or confirmed hazardous substance release properties.

In 1996, California EPA reevaluated and significantly reduced the number of sites in the

Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/27/2006

Date of Next Scheduled Update: 02/26/2007

CA CA BOND EXP. PLAN: Bond Expenditure Plan

Source: Department of Health Services

Telephone: 916-255-2118

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/31/1994

Date of Next Scheduled Update: Not reported

CA SCH: School Property Evaluation Program

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006

Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/2006

Date of Next Scheduled Update: 02/26/2007

CA TOXIC PITS: Toxic Pits Cleanup Act Sites

Source: State Water Resources Control Board

Telephone: 916-227-4364

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/30/2006

Date of Next Scheduled Update: 01/29/2007

CA CA WDS: Waste Discharge System

Source: State Water Resources Control Board

Telephone: 916-341-5227

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/19/2006

Date of Next Scheduled Update: 03/19/2007

CA WMUDS/SWAT: Waste Management Unit Database

Source: State Water Resources Control Board

Telephone: 916-227-4448

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/07/2006

Date of Next Scheduled Update: 03/05/2007

CA CORTESE: "Cortese" Hazardous Waste & Substances Sites List

Source: CAL EPA/Office of Emergency Information

Telephone: 916-323-3400

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/23/2006

Date of Next Scheduled Update: 01/22/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA SWRCY: Recycler Database

Source: Department of Conservation
Telephone: 916-323-3836
A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/12/2006
Date of Next Scheduled Update: 01/08/2007

CA CA FID UST: Facility Inventory Database

Source: California Environmental Protection Agency
Telephone: 916-341-5851

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/28/1998
Date of Next Scheduled Update: Not reported

CA SLIC: Statewide SLIC Cases

Source: State Water Resources Control Board
Telephone: 866-480-1028

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 10/12/2006
Date of Next Scheduled Update: 01/08/2007

CA Sacramento Co. CS: CS - Contaminated Sites

Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Date of Government Version: 08/02/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/17/2006
Date of Next Scheduled Update: 01/29/2007

CA CS: Contaminated Sites

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/26/2006
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/23/2006
Date of Next Scheduled Update: 01/22/2007

CA HIST LUST: Fuel Leak Site Activity Report

Source: Santa Clara Valley Water District
Telephone: 408-265-2600

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 09/25/2006
Date of Next Scheduled Update: 12/25/2006

CA AOCONCERN: San Gabriel Valley Areas of Concern

Source: EPA Region 9
Telephone: 415-972-3178

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/16/2006
Date of Next Scheduled Update: Not reported

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA HIST UST: Hazardous Substance Storage Container Database

Source: State Water Resources Control Board

Telephone: 916-341-5851

The Hazardous Substance Storage Container Database is a historical listing of UST sites.

Refer to local/county source for current data.

Date of Government Version: 10/15/1990

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/26/2001

Date of Next Scheduled Update: Not reported

CA Fresno Co. CUPA: CUPA Resources List

Source: Dept. of Community Health

Telephone: 559-445-3271

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/20/2006

Date of Next Scheduled Update: 02/05/2007

CA PLACER CO. MS: Master List of Facilities

Source: Placer County Health and Human Services

Telephone: 530-889-7312

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/14/2006

Date of Next Scheduled Update: 12/19/2006

CA CONTRA COSTA CO. SITE LIST: Site List

Source: Contra Costa Health Services Department

Telephone: 925-646-2286

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/27/2006

Date of Next Scheduled Update: 02/26/2007

CA SAN JOSE HAZMAT: Hazardous Material Facilities

Source: City of San Jose Fire Department

Telephone: 408-277-4659

Date of Government Version: 09/07/2006

Database Release Frequency: Annually

Date of Last EDR Contact: 12/04/2006

Date of Next Scheduled Update: 03/05/2007

CA SWEEPS UST: SWEEPS UST Listing

Source: State Water Resources Control Board

Telephone: Not reported

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/03/2005

Date of Next Scheduled Update: Not reported

CA CHMIRS: California Hazardous Material Incident Report System

Source: Office of Emergency Services

Telephone: 916-845-8400

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004

Database Release Frequency: Varies

Date of Last EDR Contact: 11/20/2006

Date of Next Scheduled Update: 02/19/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA NOTIFY 65: Proposition 65 Records

Source: State Water Resources Control Board

Telephone: 916-445-3846

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/16/2006

Date of Next Scheduled Update: 01/15/2007

CA LA Co. Site Mitigation: Site Mitigation List

Source: Community Health Services

Telephone: 323-890-7806

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006

Database Release Frequency: Annually

Date of Last EDR Contact: 11/13/2006

Date of Next Scheduled Update: 02/12/2007

CA Orange Co. Industrial Site: List of Industrial Site Cleanups

Source: Health Care Agency

Telephone: 714-834-3446

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006

Database Release Frequency: Annually

Date of Last EDR Contact: 12/06/2006

Date of Next Scheduled Update: 03/05/2007

CA DEED: Deed Restriction Listing

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/05/2006

Date of Next Scheduled Update: 01/01/2007

CA VCP: Voluntary Cleanup Program Properties

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006

Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/2006

Date of Next Scheduled Update: 02/26/2007

CA DRYCLEANERS: Cleaner Facilities

Source: Department of Toxic Substance Control

Telephone: 916-327-4498

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholstery cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005

Database Release Frequency: Annually

Date of Last EDR Contact: 10/02/2006

Date of Next Scheduled Update: 01/01/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

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CA WIP: Well Investigation Program Case List

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 10/25/2006

Database Release Frequency: Varies

Date of Last EDR Contact: 10/23/2006

Date of Next Scheduled Update: 01/22/2007

CA LOS ANGELES CO. HMS: HMS: Street Number List

Source: Department of Public Works

Telephone: 626-458-3517

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/31/2006

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/13/2006

Date of Next Scheduled Update: 02/12/2007

CA VENTURA CO. BWT: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

Source: Ventura County Environmental Health Division

Telephone: 805-654-2813

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/13/2006

Date of Next Scheduled Update: 03/12/2007

CA CDL: Clandestine Drug Labs

Source: Department of Toxic Substances Control

Telephone: 916-255-6504

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006

Database Release Frequency: Varies

Date of Last EDR Contact: 10/23/2006

Date of Next Scheduled Update: 01/22/2007

CA Sacramento Co. ML: ML - Regulatory Compliance Master List

Source: Sacramento County Environmental Management

Telephone: 916-875-8406

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006

Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/17/2006

Date of Next Scheduled Update: 01/29/2007

CA San Bern. Co. Permit: Hazardous Material Permits

Source: San Bernardino County Fire Department Hazardous Materials Division

Telephone: 909-387-3041

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/04/2006

Date of Next Scheduled Update: 03/05/2007

CA SAN DIEGO CO. HMMD: Hazardous Materials Management Division Database

Source: Hazardous Materials Management Division

Telephone: 619-338-2268

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005

Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/04/2006

Date of Next Scheduled Update: 01/01/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA RESPONSE: State Response Sites

Source: Department of Toxic Substances Control
Telephone: 916-323-3400

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/2006
Date of Next Scheduled Update: 02/26/2007

CA San Mateo Co. BI: Business Inventory

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Database Release Frequency: Annually

Date of Last EDR Contact: 10/09/2006
Date of Next Scheduled Update: 01/08/2007

CA HAZNET: Facility and Manifest Data

Source: California Environmental Protection Agency
Telephone: 916-255-1136

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 11/20/2006
Date of Next Scheduled Update: 02/05/2007

CA EMI: Emissions Inventory Data

Source: California Air Resources Board
Telephone: 916-322-2990

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Database Release Frequency: Varies

Date of Last EDR Contact: 10/20/2006
Date of Next Scheduled Update: 01/15/2007

CA ENVIROSTOR: EnviroStor Database

Source: Department of Toxic Substances Control
Telephone: 916-323-3400

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/2006
Date of Next Scheduled Update: 02/26/2007

POTENTIAL SUPERFUND LIABILITY

PRP: Potentially Responsible Parties

Source: EPA
Telephone: 202-564-6064
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/07/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/02/2006
Date of Next Scheduled Update: 01/01/2007



EDR® Environmental
Data Resources Inc

EDR Site Report™

**SCWA RUSSIAN RIVER WWTP
NEELEY ROAD 18400
GUERNEVILLE, CA**

Inquiry Number:

December 21, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of over 4 million government records from more than 600 federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases Searched and Update Information. Page 5

Name, source, update dates, contact phone number and description of each of the databases searched for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1
AREA	SCWA RUSSIAN RIVER WWTP NEELEY ROAD 18400 GUERNEVILLE, CA EDR ID #S104857227
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	YES - p4
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility has reported leaking underground storage tank incidents

DATABASE: Leaking Petroleum Storage Tank Database (LUST)

SCWA RUSSIAN RIVER WWTP
NEELEY ROAD 18400
GUERNEVILLE, CA
EDR ID #S104857227

LUST:
Region: 1
Facility ID: 1TSO777
Staff Initials: LOP

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

WASTE MANAGEMENT

RCRA: Resource Conservation and Recovery Act Information

Source: EPA

Telephone: 800-424-9346

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/13/2006
Date of Next Scheduled Update: 02/19/2007

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003
Database Release Frequency: Biennially

Date of Last EDR Contact: 12/15/2006
Date of Next Scheduled Update: 03/12/2007

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/04/2006
Date of Next Scheduled Update: 03/05/2007

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/27/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/04/2006
Date of Next Scheduled Update: 03/05/2007

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-566-0500

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006
Database Release Frequency: Annually

Date of Last EDR Contact: 11/29/2006
Date of Next Scheduled Update: 02/05/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/19/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/02/2006
Date of Next Scheduled Update: 01/01/2007

CA AST: Aboveground Petroleum Storage Tank Facilities

Source: State Water Resources Control Board

Telephone: 916-341-5712

Registered Aboveground Storage Tanks.

Date of Government Version: 11/02/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/30/2006
Date of Next Scheduled Update: 01/29/2007

CA UST: Active UST Facilities

Source: SWRCB

Telephone: 866-480-1028

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 10/11/2006
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/12/2006
Date of Next Scheduled Update: 01/08/2007

CA LUST: Geotracker's Leaking Underground Fuel Tank Report

Source: State Water Resources Control Board

Telephone: 866-480-1028

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/12/2006
Date of Next Scheduled Update: 01/08/2007

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005
Database Release Frequency: Annually

Date of Last EDR Contact: 10/24/2006
Date of Next Scheduled Update: 01/22/2007

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4555

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 08/01/2006
Database Release Frequency: Annually

Date of Last EDR Contact: 10/18/2006
Date of Next Scheduled Update: 01/15/2007

WASTE DISPOSAL

NPL: National Priority List

Source: EPA

Telephone: Not reported

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 09/27/2006
Date Made Active at EDR: 11/22/2006
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/01/2006
Elapsed ASTM Days: 21
Date of Last EDR Contact: 11/01/2006

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

Proposed NPL: Proposed National Priority List Sites

Source: EPA
Telephone: Not reported

Date of Government Version: 09/27/2006
Date Made Active at EDR: 11/22/2006
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/01/2006
Elapsed ASTM Days: 21
Date of Last EDR Contact: 11/01/2006

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: Not reported

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 09/27/2006
Date Made Active at EDR: 11/22/2006
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 11/01/2006
Elapsed ASTM Days: 21
Date of Last EDR Contact: 11/01/2006

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA
Telephone: 703-603-8960

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 08/09/2006
Date Made Active at EDR: 11/22/2006
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 09/21/2006
Elapsed ASTM Days: 62
Date of Last EDR Contact: 12/19/2006

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA
Telephone: 703-603-8960

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/10/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/18/2006
Date of Next Scheduled Update: 03/19/2007

ROD: Records Of Decision

Source: EPA
Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 10/07/2006
Database Release Frequency: Annually

Date of Last EDR Contact: 10/02/2006
Date of Next Scheduled Update: 01/01/2007

NPL RECOVERY: Federal Superfund Liens

Source: EPA
Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Made Active at EDR: 03/30/1994
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/02/1994
Elapsed ASTM Days: 56
Date of Last EDR Contact: 11/17/2006

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA SWF/LF (SWIS): Solid Waste Information System

Source: Integrated Waste Management Board

Telephone: 916-341-6320

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/13/2006
Date of Next Scheduled Update: 03/12/2007

MULTIMEDIA

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-566-0250

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004
Database Release Frequency: Annually

Date of Last EDR Contact: 12/19/2006
Date of Next Scheduled Update: 03/19/2007

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-4203

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004
Database Release Frequency: Annually

Date of Last EDR Contact: 11/07/2006
Date of Next Scheduled Update: 01/15/2007

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-5521

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Database Release Frequency: N/A

Date of Last EDR Contact: 10/18/2006
Date of Next Scheduled Update: 01/15/2007

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 10/19/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/18/2006
Date of Next Scheduled Update: 03/19/2007

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-566-1667

Date of Government Version: 10/19/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/18/2006
Date of Next Scheduled Update: 03/19/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

FINDS: Facility Index System/Facility Registry System

Source: EPA

Telephone: Not reported

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/11/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/02/2006
Date of Next Scheduled Update: 01/01/2007

RMP: Risk Management Plans

Source: Environmental Protection Agency

Telephone: 202-564-8600

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 09/01/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 11/17/2006
Date of Next Scheduled Update: 02/19/2007

STORMWATER: Storm Water General Permits

Source: Environmental Protection Agency

Telephone: 202-564-0746

A listing of all facilities with Storm Water General Permits.

Date of Government Version: 06/02/2005
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/28/2006
Date of Next Scheduled Update: 01/01/2007

US ENG CONTROLS: Engineering Controls Sites List

Source: Environmental Protection Agency

Telephone: 703-603-8905

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 09/07/2006
Date of Next Scheduled Update: 10/02/2006

US INST CONTROL: Sites with Institutional Controls

Source: Environmental Protection Agency

Telephone: 703-603-8905

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 09/07/2006
Date of Next Scheduled Update: 10/02/2006

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

Source: EPA Region 1

Telephone: 617-918-1313

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 09/07/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 11/17/2006
Date of Next Scheduled Update: 02/19/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA HIST CAL-SITES: Historical Calsites Database

Source: Department of Toxic Substance Control
Telephone: 916-323-3400

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 11/27/2006
Date of Next Scheduled Update: 02/26/2007

CA CA BOND EXP. PLAN: Bond Expenditure Plan

Source: Department of Health Services
Telephone: 916-255-2118

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/31/1994
Date of Next Scheduled Update: Not reported

CA SCH: School Property Evaluation Program

Source: Department of Toxic Substances Control
Telephone: 916-323-3400

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/2006
Date of Next Scheduled Update: 02/26/2007

CA TOXIC PITS: Toxic Pits Cleanup Act Sites

Source: State Water Resources Control Board
Telephone: 916-227-4364

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/30/2006
Date of Next Scheduled Update: 01/29/2007

CA CA WDS: Waste Discharge System

Source: State Water Resources Control Board
Telephone: 916-341-5227

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/19/2006
Date of Next Scheduled Update: 03/19/2007

CA WMUDS/SWAT: Waste Management Unit Database

Source: State Water Resources Control Board
Telephone: 916-227-4448

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/07/2006
Date of Next Scheduled Update: 03/05/2007

CA CORTESE: "Cortese" Hazardous Waste & Substances Sites List

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/23/2006
Date of Next Scheduled Update: 01/22/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA SWRCY: Recycler Database

Source: Department of Conservation
Telephone: 916-323-3836
A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/12/2006
Date of Next Scheduled Update: 01/08/2007

CA CA FID UST: Facility Inventory Database

Source: California Environmental Protection Agency
Telephone: 916-341-5851
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 12/28/1998
Date of Next Scheduled Update: Not reported

CA SLIC: Statewide SLIC Cases

Source: State Water Resources Control Board
Telephone: 866-480-1028
The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 10/12/2006
Date of Next Scheduled Update: 01/08/2007

CA Sacramento Co. CS: CS - Contaminated Sites

Source: Sacramento County Environmental Management
Telephone: 916-875-8406

Date of Government Version: 08/02/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/17/2006
Date of Next Scheduled Update: 01/29/2007

CA CS: Contaminated Sites

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 10/26/2006
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/23/2006
Date of Next Scheduled Update: 01/22/2007

CA HIST LUST: Fuel Leak Site Activity Report

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 09/25/2006
Date of Next Scheduled Update: 12/25/2006

CA AOCONCERN: San Gabriel Valley Areas of Concern

Source: EPA Region 9
Telephone: 415-972-3178
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/16/2006
Date of Next Scheduled Update: Not reported

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA HIST UST: Hazardous Substance Storage Container Database

Source: State Water Resources Control Board

Telephone: 916-341-5851

The Hazardous Substance Storage Container Database is a historical listing of UST sites.

Refer to local/county source for current data.

Date of Government Version: 10/15/1990

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 07/26/2001

Date of Next Scheduled Update: Not reported

CA Fresno Co. CUPA: CUPA Resources List

Source: Dept. of Community Health

Telephone: 559-445-3271

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/20/2006

Date of Next Scheduled Update: 02/05/2007

CA PLACER CO. MS: Master List of Facilities

Source: Placer County Health and Human Services

Telephone: 530-889-7312

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 08/14/2006

Date of Next Scheduled Update: 12/19/2006

CA CONTRA COSTA CO. SITE LIST: Site List

Source: Contra Costa Health Services Department

Telephone: 925-646-2286

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/27/2006

Date of Next Scheduled Update: 02/26/2007

CA SAN JOSE HAZMAT: Hazardous Material Facilities

Source: City of San Jose Fire Department

Telephone: 408-277-4659

Date of Government Version: 09/07/2006

Database Release Frequency: Annually

Date of Last EDR Contact: 12/04/2006

Date of Next Scheduled Update: 03/05/2007

CA SWEEPS UST: SWEEPS UST Listing

Source: State Water Resources Control Board

Telephone: Not reported

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 06/03/2005

Date of Next Scheduled Update: Not reported

CA CHMIRS: California Hazardous Material Incident Report System

Source: Office of Emergency Services

Telephone: 916-845-8400

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004

Database Release Frequency: Varies

Date of Last EDR Contact: 11/20/2006

Date of Next Scheduled Update: 02/19/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA NOTIFY 65: Proposition 65 Records

Source: State Water Resources Control Board

Telephone: 916-445-3846

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 10/16/2006

Date of Next Scheduled Update: 01/15/2007

CA LA Co. Site Mitigation: Site Mitigation List

Source: Community Health Services

Telephone: 323-890-7806

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006

Database Release Frequency: Annually

Date of Last EDR Contact: 11/13/2006

Date of Next Scheduled Update: 02/12/2007

CA Orange Co. Industrial Site: List of Industrial Site Cleanups

Source: Health Care Agency

Telephone: 714-834-3446

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006

Database Release Frequency: Annually

Date of Last EDR Contact: 12/06/2006

Date of Next Scheduled Update: 03/05/2007

CA DEED: Deed Restriction Listing

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 10/05/2006

Date of Next Scheduled Update: 01/01/2007

CA VCP: Voluntary Cleanup Program Properties

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006

Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/2006

Date of Next Scheduled Update: 02/26/2007

CA DRYCLEANERS: Cleaner Facilities

Source: Department of Toxic Substance Control

Telephone: 916-327-4498

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005

Database Release Frequency: Annually

Date of Last EDR Contact: 10/02/2006

Date of Next Scheduled Update: 01/01/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA WIP: Well Investigation Program Case List

Source: Los Angeles Water Quality Control Board

Telephone: 213-576-6726

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 10/25/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 10/23/2006
Date of Next Scheduled Update: 01/22/2007

CA LOS ANGELES CO. HMS: HMS: Street Number List

Source: Department of Public Works

Telephone: 626-458-3517

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/31/2006
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 11/13/2006
Date of Next Scheduled Update: 02/12/2007

CA VENTURA CO. BWT: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

Source: Ventura County Environmental Health Division

Telephone: 805-654-2813

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/13/2006
Date of Next Scheduled Update: 03/12/2007

CA CDL: Clandestine Drug Labs

Source: Department of Toxic Substances Control

Telephone: 916-255-6504

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006
Database Release Frequency: Varies

Date of Last EDR Contact: 10/23/2006
Date of Next Scheduled Update: 01/22/2007

CA Sacramento Co. ML: ML - Regulatory Compliance Master List

Source: Sacramento County Environmental Management

Telephone: 916-875-8406

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/17/2006
Date of Next Scheduled Update: 01/29/2007

CA San Bern. Co. Permit: Hazardous Material Permits

Source: San Bernardino County Fire Department Hazardous Materials Division

Telephone: 909-387-3041

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/04/2006
Date of Next Scheduled Update: 03/05/2007

CA SAN DIEGO CO. HMMD: Hazardous Materials Management Division Database

Source: Hazardous Materials Management Division

Telephone: 619-338-2268

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Database Release Frequency: Quarterly

Date of Last EDR Contact: 12/04/2006
Date of Next Scheduled Update: 01/01/2007

SECTION 3: DATABASES SEARCHED AND UPDATE DATES

...Continued...

CA RESPONSE: State Response Sites

Source: Department of Toxic Substances Control
Telephone: 916-323-3400

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/2006
Date of Next Scheduled Update: 02/26/2007

CA San Mateo Co. BI: Business Inventory

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Database Release Frequency: Annually

Date of Last EDR Contact: 10/09/2006
Date of Next Scheduled Update: 01/08/2007

CA HAZNET: Facility and Manifest Data

Source: California Environmental Protection Agency
Telephone: 916-255-1136

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Database Release Frequency: Annually

Date of Last EDR Contact: 11/20/2006
Date of Next Scheduled Update: 02/05/2007

CA EMI: Emissions Inventory Data

Source: California Air Resources Board
Telephone: 916-322-2990

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Database Release Frequency: Varies

Date of Last EDR Contact: 10/20/2006
Date of Next Scheduled Update: 01/15/2007

CA ENVIROSTOR: EnviroStor Database

Source: Department of Toxic Substances Control
Telephone: 916-323-3400

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 11/29/2006
Date of Next Scheduled Update: 02/26/2007

POTENTIAL SUPERFUND LIABILITY

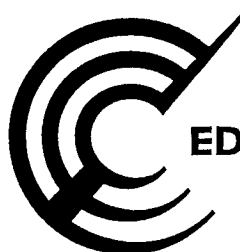
PRP: Potentially Responsible Parties

Source: EPA
Telephone: 202-564-6064

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/07/2006
Database Release Frequency: Quarterly

Date of Last EDR Contact: 10/02/2006
Date of Next Scheduled Update: 01/01/2007



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Russian River Basin Storage Project
18400 Neeley Road
Guerneville, CA 95446**

Inquiry Number: 1687783.1s

June 02, 2006

The Standard in Environmental Risk Management Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

18400 NEELEY ROAD
GUERNEVILLE, CA 95446

COORDINATES

Latitude (North): 38.485500 - 38° 29' 7.8"
Longitude (West): 122.998900 - 122° 59' 56.0"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 500095.9
UTM Y (Meters): 4259477.5
Elevation: 81 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38122-D8 CAMP MEEKER, CA
Most Recent Revision: 1999

North Map: 38122-E8 GUERNEVILLE, CA
Most Recent Revision: 1999

West Map: 38123-D1 DUNCANS MILLS, CA
Most Recent Revision: 1999

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following government records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
COUNTY OF SONOMA/WASTE WATER DIVI 18400 NEELEY ROAD GUERNEVILLE, CA 95446	HAZNET	N/A
SCWA RUSSIAN RIVER CSD 18400 NEELEY ROAD GUERNEVILLE, CA 95446	FINDS	110006784104
RUSSIAN RIVER TREATMENT P 18400 NEELEY RD GUERNEVILLE, CA 95446	LUST Facility Status: Post remedial action monitoring	N/A
RUSSIAN RIVER TREATMENT P 18400 NEELEY GUERNEVILLE, CA 95446	HIST UST SWEEPS UST	N/A

EXECUTIVE SUMMARY

18400 NEELEY RD
18400 NEELEY RD
GUERNEVILLE, CA

CHMIRS

N/A

SCWA RUSSIAN RIVER CSD
18400 NEELY
GUERNEVILLE, CA 95446

Cortese
CA WDS

N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL.....	National Priority List
Proposed NPL.....	Proposed National Priority List Sites
Delisted NPL.....	National Priority List Deletions
NPL RECOVERY.....	Federal Superfund Liens
CERCLIS.....	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP.....	CERCLIS No Further Remedial Action Planned
CORRACTS.....	Corrective Action Report
RCRA-TSDF.....	Resource Conservation and Recovery Act Information
RCRA-LQG.....	Resource Conservation and Recovery Act Information
RCRA-SQG.....	Resource Conservation and Recovery Act Information
ERNS.....	Emergency Response Notification System
HMIRS.....	Hazardous Materials Information Reporting System
US ENG CONTROLS.....	Engineering Controls Sites List
US INST CONTROL.....	Sites with Institutional Controls
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
US BROWNFIELDS.....	A Listing of Brownfields Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
ODI.....	Open Dump Inventory
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
RAATS.....	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

AWP..... Annual Workplan Sites

EXECUTIVE SUMMARY

Cal-Sites.....	Calsites Database
CA BOND EXP. PLAN.....	Bond Expenditure Plan
NFA.....	No Further Action Determination
NFE.....	Properties Needing Further Evaluation
REF.....	Unconfirmed Properties Referred to Another Agency
SCH.....	School Property Evaluation Program
Toxic Pits.....	Toxic Pits Cleanup Act Sites
SWF/LF.....	Solid Waste Information System
WMUDS/SWAT.....	Waste Management Unit Database
SWRCY.....	Recycler Database
CA FID UST.....	Facility Inventory Database
SLIC.....	Statewide SLIC Cases
UST.....	Active UST Facilities
AST.....	Aboveground Petroleum Storage Tank Facilities
Notify 65.....	Proposition 65 Records
DEED.....	Deed Restriction Listing
VCP.....	Voluntary Cleanup Program Properties
CLEANERS.....	Cleaner Facilities
WIP.....	Well Investigation Program Case List
CDL.....	Clandestine Drug Labs
EMI.....	Emissions Inventory Data

TRIBAL RECORDS

INDIAN RESERV.....	Indian Reservations
INDIAN LUST.....	Leaking Underground Storage Tanks on Indian Land
INDIAN UST.....	Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

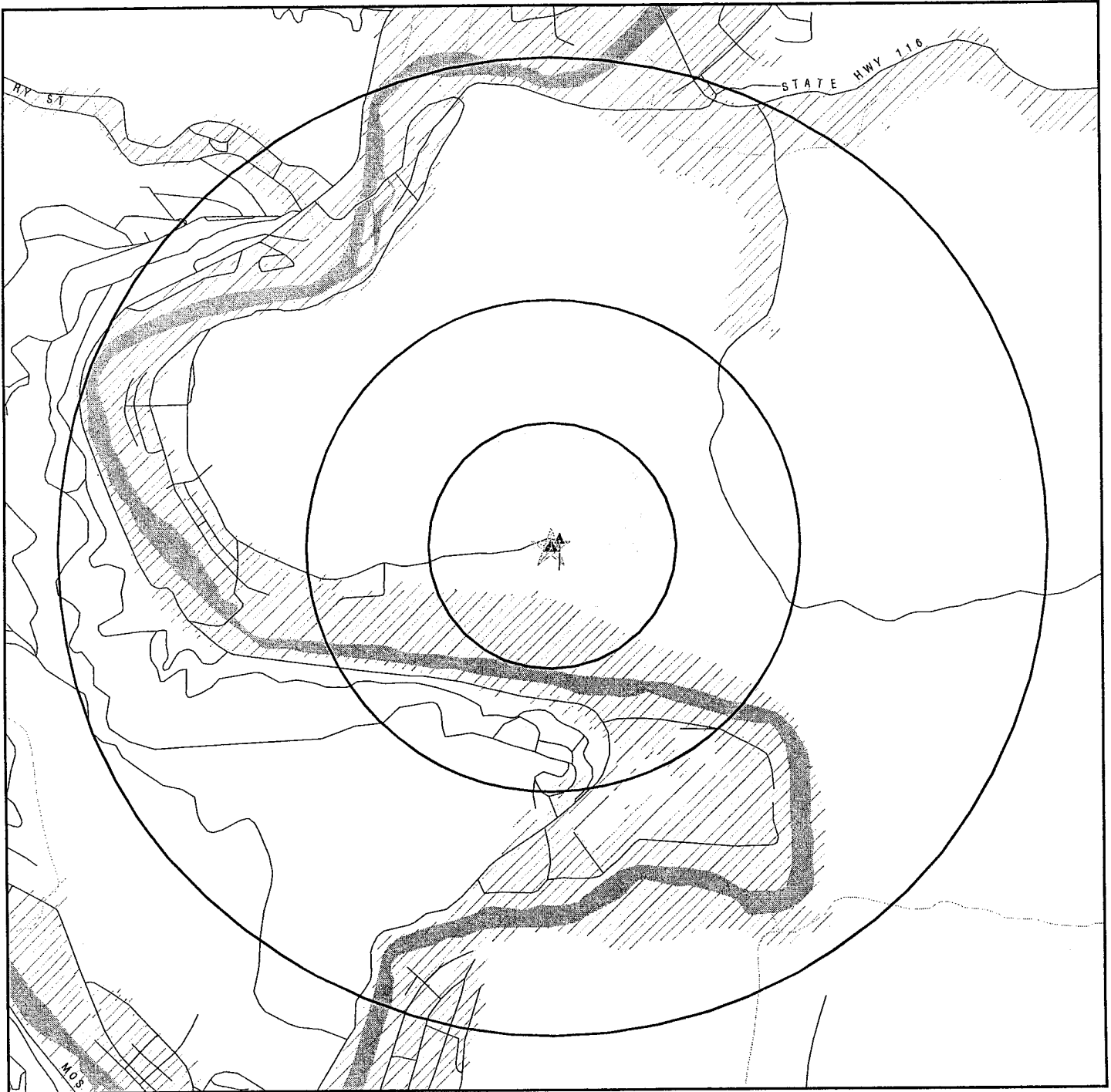
Site Name

FIFES RESORT
RIVER RD B P
CITY OF SEBASTOPOL - WELL #6
IMPERIAL FRENCH CLEANERS
RUSSIAN RIVER FLOOD
SCWA RUSSIAN RIVER WWTP
FERN'S GROCERY
SEBASTOPOL SHELL
RUSSIAN RIVER MAIN PUMP STATIO
LEO J. CARANO
ROBERT D CROSS CROSS TRUCKING
VILLAGE PARK MOBILE HOME PARK

Database(s)

SWEEPS UST
SWEEPS UST
SWEEPS UST
CLEANERS
CERCLIS, FINDS
LUST
LUST
UST
HIST UST
HIST UST
RCRA-SQG, FINDS
SLIC

OVERVIEW MAP - 1687783.1s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- ~ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

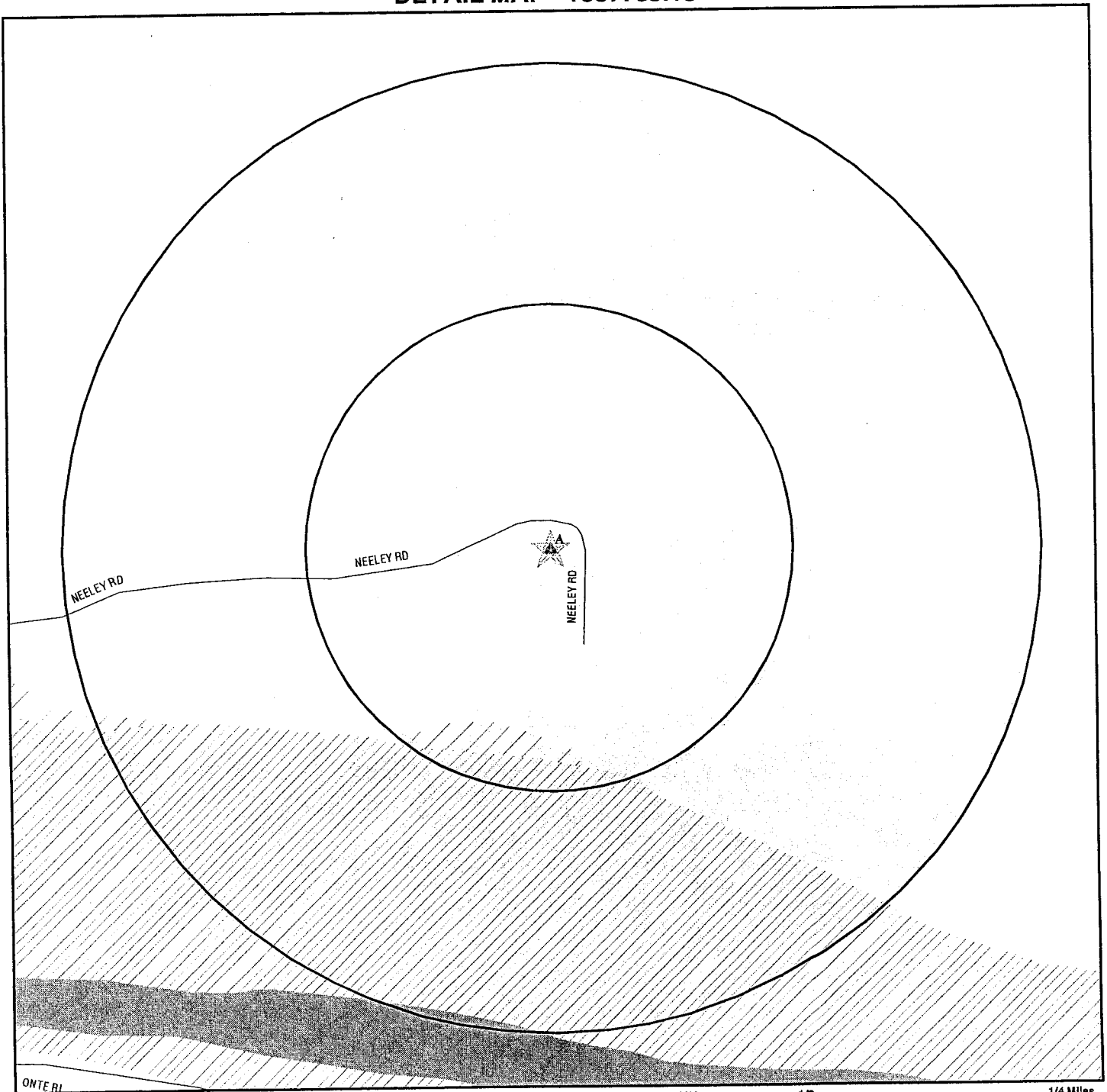
0 1/4 1/2 1 Miles



SITE NAME: Russian River Basin Storage Project
 ADDRESS: 18400 Neeley Road
 Guerneville CA 95446
 LAT/LONG: 38.4855 / 122.9989

CLIENT: AES
 CONTACT: Pete Connelly
 INQUIRY #: 1687783.1s
 DATE: June 02, 2006

DETAIL MAP - 1687783.1s



☆ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

⚡ Sensitive Receptors

■ National Priority List Sites

■ Landfill Sites

■ Dept. Defense Sites

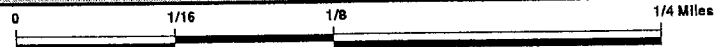
■ Indian Reservations BIA

▲ Oil & Gas pipelines

■ 100-year flood zone

■ 500-year flood zone

■ Areas of Concern



SITE NAME: Russian River Basin Storage Project
 ADDRESS: 18400 Neeley Road
 Guerneville CA 95446
 LAT/LONG: 38.4855 / 122.9989

CLIENT: AES
 CONTACT: Pete Connelly
 INQUIRY #: 1687783.1s
 DATE: June 02, 2006

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
STATE AND LOCAL RECORDS								
AWP		1.000	0	0	0	0	NR	0
Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
NFA		0.250	0	0	NR	NR	NR	0
NFE		0.250	0	0	NR	NR	NR	0
REF		0.250	0	0	NR	NR	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	X	TP	NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese	X	0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST	X	0.500	0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST	X	0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST	X	0.250	0	0	NR	NR	NR	0
CHMIRS	X	TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
HAZNET	X	TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site
Database(s)
EDR ID Number
EPA ID Number

A1 COUNTY OF SONOMA/WASTE WATER DIVISION
Target 18400 NEELEY ROAD
Property GUERNEVILLE, CA 95446

HAZNET S103958910
N/A

Actual:
87 ft. Site 1 of 6 in cluster A

HAZNET:
Gepaid: CAC000931864
TSD EPA ID: CAD009452657
Gen County: Sonoma
Tsd County: San Mateo
Tons: .1042
Facility Address 2: Not reported
Waste Category: Aqueous solution with 10% or more total organic residues
Disposal Method: Recycler
Contact: COUNTY OF SONOMA/JIM JOHNSON
Telephone: (707) 869-2800
Mailing Name: Not reported
Mailing Address: 2300 COUNTY CENTER DR.#208
SANTA ROSA, CA 95403
County Sonoma

A2 SCWA RUSSIAN RIVER CSD
Target 18400 NEELEY ROAD
Property GUERNEVILLE, CA 95446

FINDS 1005489201
110006784104

Actual:
87 ft. Site 2 of 6 in cluster A

FINDS:
Other Pertinent Environmental Activity Identified at Site:
The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs). PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

A3 RUSSIAN RIVER TREATMENT P
Target 18400 NEELEY RD
Property GUERNEVILLE, CA 95446

LUST S105035249
N/A

Actual:
87 ft. Site 3 of 6 in cluster A

State LUST:
Cross Street: Not reported
Qty Leaked: Not reported
Case Number: 1TSO777
Reg Board: North Coast Region
Chemical: Diesel
Lead Agency: Local Agency
Local Agency: 49000L
Case Type: Drinking Water Aquifer affected
Status: Post remedial action monitoring
Review Date: Not reported
Workplan: 1995-12-08 00:00:00
Pollution Char: Not reported
Remed Action: Not reported
Monitoring: 2003-11-19 00:00:00
Close Date: Not reported
Release Date: 2001-01-02 00:00:00
Cleanup Fund Id: Not reported
Confirm Leak: Not reported
Prelim Assess: 1995-12-08 00:00:00
Remed Plan: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

RUSSIAN RIVER TREATMENT P (Continued)

S105035249

Discover Date : 1995-09-27 00:00:00
Enforcement Dt : Not reported
Enf Type: SEL
Enter Date : Not reported
Funding: Not reported
Staff Initials: DB
How Discovered: Tank Test
How Stopped: Close Tank
Interim : Not reported
Leak Cause: Structure Failure
Leak Source: Tank
MTBE Date : 2000-11-30 00:00:00
Max MTBE GW : 57 Parts per Billion
MTBE Tested: MTBE Detected. Site tested for MTBE & MTBE detected
Priority: Not reported
Local Case # : 00002226
Beneficial: MUN
Staff : HAZ
GW Qualifier : =
Max MTBE Soil : Not reported
Soil Qualifier : Not reported
Hydr Basin #: UNNAMED BASIN
Operator : Not reported
Oversight Prgm: LUST
Review Date : Not reported
Stop Date : 1995-09-27 00:00:00
Work Suspended :Not reported
Responsible PartyCHRIS MURRAY
RP Address: P.O. BOX 11628
Global Id: T0609792509
Org Name: Not reported
Contact Person: Not reported
MTBE Conc: 3
Mtbe Fuel: 0
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary : Not reported

LUST Sonoma County:

Region: SONOMA
LOP Number: 00002226
Global ID: T0609792509
Date: Not reported
Staff: DB
Regional Board: 1TSO777
Closed or Referred: Not reported
Funding Fed / State: F

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

A4 RUSSIAN RIVER TREATMENT P
Target 18400 NEELEY
Property GUERNEVILLE, CA 95446

Database(s) EDR ID Number
EPA ID Number

HIST UST U001610064
SWEEPS UST N/A

Site 4 of 6 in cluster A

Actual:
87 ft.

UST HIST:

Facility ID: 46274
Total Tanks: 2
Owner Address: 575 ADMINISTRATION DRIVE, RM.
SANTA ROSA, CA 95401

Owner Name: COUNTY OF SONOMA, SANITATION D
Region: STATE

Tank Used for: PRODUCT
Tank Num: 1
Tank Capacity: 00004000
Type of Fuel: DIESEL
Leak Detection: Stock Inventor
Contact Name: RODNEY HULS
Facility Type: Other

Container Num: RR1-80
Year Installed: 1980
Tank Construction: Not Reported

Telephone: (707) 869-2809
Other Type: WASTEWATER TREATMENT

Facility ID: 46274
Total Tanks: 2
Owner Address: 575 ADMINISTRATION DRIVE, RM.
SANTA ROSA, CA 95401

Owner Name: COUNTY OF SONOMA, SANITATION D
Region: STATE

Tank Used for: PRODUCT
Tank Num: 2
Tank Capacity: 00001000
Type of Fuel: Not reported
Leak Detection: Stock Inventor
Contact Name: RODNEY HULS
Facility Type: Other

Container Num: RR2-80
Year Installed: 1980
Tank Construction: Not Reported

Telephone: (707) 869-2809
Other Type: WASTEWATER TREATMENT

SWEEPS:

Status : A
Comp Number : 2226
Number : 9
Board Of Equalization : 44-027908
Ref Date : Not reported
Act Date : 10-05-89
Created Date : 03-31-89
Tank Status : A
Owner Tank Id : Not reported
Swrcb Tank Id : 49-000-002226-000001
Actv Date : 10-05-89
Capacity : 4000
Tank Use : M.V. FUEL
Stg : P
Content : DIESEL
Number Of Tanks : 2

Status : A
Comp Number : 2226
Number : 9
Board Of Equalization : 44-027908
Ref Date : Not reported
Act Date : 10-05-89
Created Date : 03-31-89
Tank Status : A
Owner Tank Id : Not reported
Swrcb Tank Id : 49-000-002226-000002
Actv Date : 10-05-89

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

RUSSIAN RIVER TREATMENT P (Continued)

EDR ID Number
EPA ID Number

Database(s)

U001610064

Capacity : 1000
Tank Use : UNKNOWN
Stg : P
Content : UNKNOWN
Number Of Tanks : Not reported

A5
Target
Property

18400 NEELEY RD
GUERNEVILLE, CA

CHMIRS S107448979
N/A

Site 5 of 6 in cluster A

Actual:
87 ft.

CHMIRS:

OES Control Number: 04-0867
Extent of Release: Not reported
Property Use: Not reported
Incident Date: Not reported
Date Completed: Not reported
Time Completed : Not reported
Agency Id Number : Not reported
Agency Incident Number : Not reported
OES Incident Number : 04-0867
Time Notified : Not reported
Surrounding Area : Not reported
Estimated Temperature : Not reported
Property Management : Not reported
More Than Two Substances Involved? : Not reported
Special Studies 1 : Not reported
Special Studies 2 : Not reported
Special Studies 3 : Not reported
Special Studies 4 : Not reported
Special Studies 5 : Not reported
Special Studies 6 : Not reported
Resp Agency Personnel # Of Decontaminated : Not reported
Others Number Of Decontaminated : Not reported
Others Number Of Injuries : Not reported
Others Number Of Fatalities : Not reported
Vehicle Make/year : Not reported
Vehicle License Number : Not reported
Vehicle State : Not reported
Vehicle Id Number : Not reported
CA/DOT/PUC/ICC Number : Not reported
Company Name : Not reported
Reporting Officer Name/ID : Not reported
Report Date : Not reported
Comments : Not reported
Facility Telephone Number : Not reported
Waterway Involved : Not reported
Waterway : Russian River
Spill Site : Not reported
Cleanup By : Reporting Party
Containment : Not reported
What Happened : Not reported
Type : Not reported
Other : Not reported
Substance : Mixed Liquor (Sewage)
Quantity Released :
E Date : Not reported
Contained : Yes

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

(Continued)

S107448979

Site Type :	Treatment/Sewage Facility
Evacuations :	0
Num Of Injuries :	0
Num Of Fatalities :	0
Date/Time :	Not reported
Year :	2004
Agency :	Not reported
BBLS :	0
Cups :	0
CUFT :	0
Gallons :	16,000
Grams :	0
Pounds :	0
Liters :	0
Ounces :	0
Pints :	0
Quarts :	0
Sheen :	0
Tons :	0
Unknown :	0
Description :	Substance was released from the plant due to the plant was unable to keep up with the influent. It's believed that substance was contained to premises, further investigation will be don
Incident date :	2/17/200412:00:00 AM
Admin Agency :	Sonoma County Fire Services Department
OES date :	Not reported
OES time :	Not reported
OES notification :	Not reported
Amount :	Not reported

A6 SCWA RUSSIAN RIVER CSD
Target 18400 NEELY
Property GUERNEVILLE, CA 95446

Cortese S103342481
CA WDS N/A

Actual: Site 6 of 6 in cluster A
87 ft. CORTESE:

Region: CORTESE
Fac Address 2: Not reported

WDS:

Facility ID:	North Coastal 820450SON	Facility Telephone	Not reported
Facility Contact	ACCOUNTING DEPARTMENT	SIC Code 2:	Not reported
SIC Code:	4952		
Agency Name:	SONOMA COUNTY WATER AGENCY		
Agency Address:	2150 W. COLLEGE AVE SANTA ROSA 95401		
Agency Contact:	RANDY POOLE	Agency Phone:	(707) 547-1935
Design Flow:	0.51 Million Gal/Day	Baseline Flow:	0.266 Million Gal/Day
Facility Type:	Municipal/Domestic - Facility that treats sewage or a mixture of predominantly sewage and other waste from districts, municipalities, communities, hospitals, schools, and publicly or privately owned systems (excluding individual subsurface leaching systems disposing of less than 1,000 gallons per day).		
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.		
Agency Type:	Special District (Includes districts established under general acts, sanitary districts, water districts irrigation districts, etc.)		
Waste Type:	Domestic Sewage - Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride).		

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SCWA RUSSIAN RIVER CSD (Continued)

S103342481

'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.

Threat to Water: Major Threat to Water Quality. A violation could render unusable a ground water or surface water resource used as a significant drink water supply, require closure of an area used for contact recreation, result in long-term deleterious effects on shell fish spawning or growth areas of aquatic resources, or directly expose the public to toxic substances.

Complexity: Category A - Any major NPDES facility, any non-NPDES facility (particularly those with toxic wastes) that would be a major if discharge was made to surface or ground waters, or any Class I disposal site. Includes any small-volume complex facility (particularly those with toxicwastes) with numerous discharge points, leak detection systems or ground water monitoring wells.

Reclamation: Producer-User: Reclamation requirements that have been issued to a producer of reclaimed water who also uses the product.

POTW: The POTW Does not have an approved pretreatment program. Some POTWs may have local pretreatment programs that have not been approved by the regional board and/or EPA.

NPDES Number: CA0024058 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

Subregion: 1

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GUERNEVILLE	U001610062	RUSSIAN RIVER MAIN PUMP STATIO	HIGHWAY 116	95446	HIST UST
GUERNEVILLE	S106926177	FIFES RESORT	16467 HWY 116	95446	SWEEPS UST
GUERNEVILLE	S104857227	SCWA RUSSIAN RIVER WWTP	NEELEY ROAD 18400	95446	LUST
GUERNEVILLE	S106931407	RIVER RD B P	15190 RIVER (A) RD	95446	SWEEPS UST
GUERNEVILLE	1000984380	RUSSIAN RIVER FLOOD	RUSSIAN RIVER	95446	CERCLIS, FINDS
MONTE RIO	S104857219	FERN'S GROCERY	HIGHWAY 116 20348	95462	LUST
PASO ROBLES	U001610059	LEO J. CARANO	SO RIVER RD, CRESTON STAR RT.	95446	HIST UST
SEBASTOPOL	1000866234	ROBERT D CROSS CROSS TRUCKING	2084 HWY 116 NORTH	95472	RCRA-SQG, FINDS
SEBASTOPOL	S107620009	VILLAGE PARK MOBILE HOME PARK	6665 HIGHWAY 12	95472	SLIC
SEBASTOPOL	U003805045	SEBASTOPOL SHELL	778 SOUTH GRAVENSTEIN HIGHWAY	95472	UST
SEBASTOPOL	S106167283	IMPERIAL FRENCH CLEANERS	732 GRAVENSTIEN HIGHWAY	95472	CLEANERS
SEBASTOPOL	S106924652	CITY OF SEBASTOPOL - WELL #6	933 S GRAVENSTIEN HWY	95472	SWEEPS UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/19/2006	Source: EPA
Date Data Arrived at EDR: 05/05/2006	Telephone: N/A
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 05/05/2006
Number of Days to Update: 17	Next Scheduled EDR Contact: 07/31/2006
	Data Release Frequency: Quarterly

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 05/23/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 08/21/2006
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 03/21/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 03/21/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 03/06/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 06/05/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/09/2006	Source: EPA
Date Data Arrived at EDR: 04/27/2006	Telephone: 800-424-9346
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/27/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 06/26/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 04/26/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/24/2006
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-366-4555
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/14/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 03/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 03/03/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 05/12/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 08/07/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/26/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2006	Telephone: 202-566-2777
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 03/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 06/12/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 03/13/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 07/24/2006
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/13/2006	Source: EPA
Date Data Arrived at EDR: 04/28/2006	Telephone: 703-416-0223
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/05/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 03/20/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2003	Source: EPA
Date Data Arrived at EDR: 07/13/2005	Telephone: 202-566-0250
Date Made Active in Reports: 08/17/2005	Last EDR Contact: 03/21/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/12/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/29/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 03/20/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 03/31/2006	Source: EPA
Date Data Arrived at EDR: 04/26/2006	Telephone: 202-566-1667
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 03/20/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 03/06/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 04/11/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/27/2005	Source: EPA
Date Data Arrived at EDR: 02/08/2006	Telephone: 202-566-0500
Date Made Active in Reports: 02/27/2006	Last EDR Contact: 05/08/2006
Number of Days to Update: 19	Next Scheduled EDR Contact: 08/07/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/12/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/26/2006	Telephone: 301-415-7169
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/29/2006	Telephone: 303-231-5959
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 03/29/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 06/26/2006
	Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/27/2006	Source: EPA
Date Data Arrived at EDR: 05/02/2006	Telephone: N/A
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 03/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 06/05/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/17/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

AWP: Annual Workplan Sites

Known Hazardous Waste Sites. California DTSC's Annual Workplan (AWP), formerly BEP, identifies known hazardous substance sites targeted for cleanup.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: California Environmental Protection Agency
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NFA: No Further Action Determination

This category contains properties at which DTSC has made a clear determination that the property does not pose a problem to the environment or to public health.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

NFE: Properties Needing Further Evaluation

This category contains properties that are suspected of being contaminated. These are unconfirmed contaminated properties that need to be assessed using the PEA process. PEA in Progress indicates properties where DTSC is currently conducting a PEA. PEA Required indicates properties where DTSC has determined a PEA is required, but not currently underway.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

REF: Unconfirmed Properties Referred to Another Agency

This category contains properties where contamination has not been confirmed and which were determined as not requiring direct DTSC Site Mitigation Program action or oversight. Accordingly, these sites have been referred to another state or local regulatory agency.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/13/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 29

Source: Integrated Waste Management Board
Telephone: 916-341-6320
Last EDR Contact: 03/15/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 03/21/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-9100
Last EDR Contact: 04/25/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 04/07/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 03/28/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 916-542-5424
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-346-7491
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 04/01/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 04/27/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-576-2220
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 04/10/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 04/10/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 02/17/2006
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 24

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 03/14/2006
Date Data Arrived at EDR: 03/14/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/11/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 20

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 05/26/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 11/30/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 50

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 04/04/2006
Date Data Arrived at EDR: 04/05/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/29/2005
Date Made Active in Reports: 09/21/2005
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/10/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 04/03/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 04/30/2006
Date Data Arrived at EDR: 05/04/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 22

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 31

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/08/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 05/11/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 04/14/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Varies

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/07/2005
Date Data Arrived at EDR: 09/08/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 53

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

INDIAN LUST: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 02/20/2006
Next Scheduled EDR Contact: 05/22/2006
Data Release Frequency: Varies

INDIAN UST: Underground Storage Tanks on Indian Land

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/22/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 22

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 02/16/2006
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 24

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/25/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 02/27/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/25/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 03/20/2006
Date Data Arrived at EDR: 03/21/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 23

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 05/29/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 31

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/10/2006
Next Scheduled EDR Contact: 08/07/2006
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 03/27/2006
Date Data Arrived at EDR: 03/28/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 34

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 03/27/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

City of El Segundo Underground Storage Tank

Date of Government Version: 02/27/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 23

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 02/27/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 23

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 05/30/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/31/2006
Date Data Arrived at EDR: 03/24/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 20

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Solid Waste Facilities

Date of Government Version: 02/14/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 13

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 05/18/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 03/15/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 05/15/2006
Next Scheduled EDR Contact: 08/14/2006
Data Release Frequency: Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 02/10/2006
Date Data Arrived at EDR: 02/28/2006
Date Made Active in Reports: 03/23/2006
Number of Days to Update: 33

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 05/01/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 9

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/27/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 27

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/27/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: Annually

ORANGE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 17

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 03/08/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/29/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 15

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 03/08/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 03/28/2006
Date Made Active in Reports: 05/01/2006
Number of Days to Update: 34

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 03/08/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 04/03/2006
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 9

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 03/20/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Underground Storage Tank Tank List

Date of Government Version: 02/09/2006
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/09/2006
Number of Days to Update: 27

Source: Health Services Agency
Telephone: 951-358-5055
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Quarterly

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 02/09/2006
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 31

Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CS - Contaminated Sites

Date of Government Version: 02/02/2006
Date Data Arrived at EDR: 02/13/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 28

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/02/2006
Date Data Arrived at EDR: 02/10/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 31

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 05/12/2006
Next Scheduled EDR Contact: 07/31/2006
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/22/2006
Date Data Arrived at EDR: 03/23/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 21

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 04/28/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 05/22/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Oversight Facilities

Date of Government Version: 03/16/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

Underground Storage Tank Information

Date of Government Version: 03/16/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 02/28/2006
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 27

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/17/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 05/02/2006
Date Data Arrived at EDR: 05/02/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 24

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 04/17/2006
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 17

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 04/10/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/28/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 03/29/2006
Date Data Arrived at EDR: 03/30/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 03/28/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: Varies

Hazardous Material Facilities

Date of Government Version: 03/09/2006
Date Data Arrived at EDR: 03/13/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 31

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 06/05/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 04/10/2006
Date Data Arrived at EDR: 04/10/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 31

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/27/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 10/13/2005
Date Data Arrived at EDR: 10/31/2005
Date Made Active in Reports: 12/08/2005
Number of Days to Update: 38

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 04/13/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 04/27/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/26/2006
Number of Days to Update: 29

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/26/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 05/25/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 02/24/2006
Date Data Arrived at EDR: 03/31/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 13

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2005
Date Data Arrived at EDR: 09/20/2005
Date Made Active in Reports: 10/06/2005
Number of Days to Update: 16

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/23/2006
Next Scheduled EDR Contact: 08/21/2006
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 02/24/2006
Date Data Arrived at EDR: 03/27/2006
Date Made Active in Reports: 04/13/2006
Number of Days to Update: 17

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/15/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/24/2006
Date Data Arrived at EDR: 04/27/2006
Date Made Active in Reports: 05/22/2006
Number of Days to Update: 25

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 01/18/2006
Date Data Arrived at EDR: 02/09/2006
Date Made Active in Reports: 03/09/2006
Number of Days to Update: 28

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/11/2006
Next Scheduled EDR Contact: 07/17/2006
Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information Hazardous waste manifest information.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/24/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 8

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/17/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/01/2006
Date Made Active in Reports: 04/20/2006
Number of Days to Update: 50

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/31/2006
Next Scheduled EDR Contact: 08/28/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/09/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/17/2006
Next Scheduled EDR Contact: 07/10/2006
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

RUSSIAN RIVER BASIN STORAGE PROJECT
18400 NEELEY ROAD
GUERNEVILLE, CA 95446

TARGET PROPERTY COORDINATES

Latitude (North):	38.48550 - 38° 29' 7.8"
Longitude (West):	122.9989 - 122° 59' 56.0"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	500095.9
UTM Y (Meters):	4259477.5
Elevation:	81 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38122-D8 CAMP MEEKER, CA
Most Recent Revision:	1999
North Map:	38122-E8 GUERNEVILLE, CA
Most Recent Revision:	1999
West Map:	38123-D1 DUNCANS MILLS, CA
Most Recent Revision:	1999

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

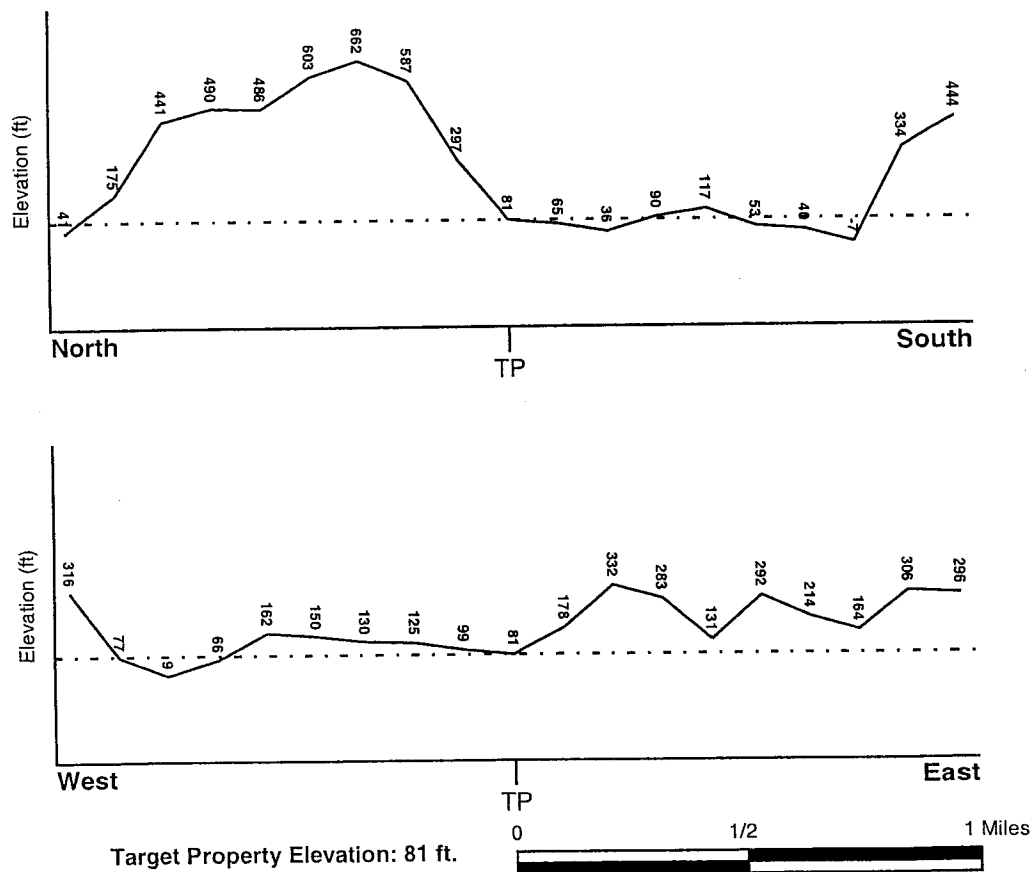
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County
SONOMA, CA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0603750655B

Additional Panels in search area: 0603750635B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
CAMP MEEKER

NWI Electronic
Data Coverage
Not Available

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1	0 - 1/8 Mile West	S

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Cenozoic
System: Tertiary
Series: Pliocene
Code: Tp (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CASABONNE

Soil Surface Texture: gravelly - loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 40 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly - loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
2	11 inches	26 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
3	26 inches	36 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
4	36 inches	49 inches	gravelly - clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
5	49 inches	53 inches	unweathered bedrock	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: extremely gravelly - sandy loam
loam
gravelly - sandy loam

Surficial Soil Types: extremely gravelly - sandy loam
loam
gravelly - sandy loam

Shallow Soil Types: very cobbly - loam
very gravelly - sandy loam
extremely gravelly - loam
gravelly - sandy loam
very gravelly - clay loam
very gravelly - loam
gravelly - clay loam
clay
loam

Deeper Soil Types: extremely gravelly - loamy sand
weathered bedrock

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

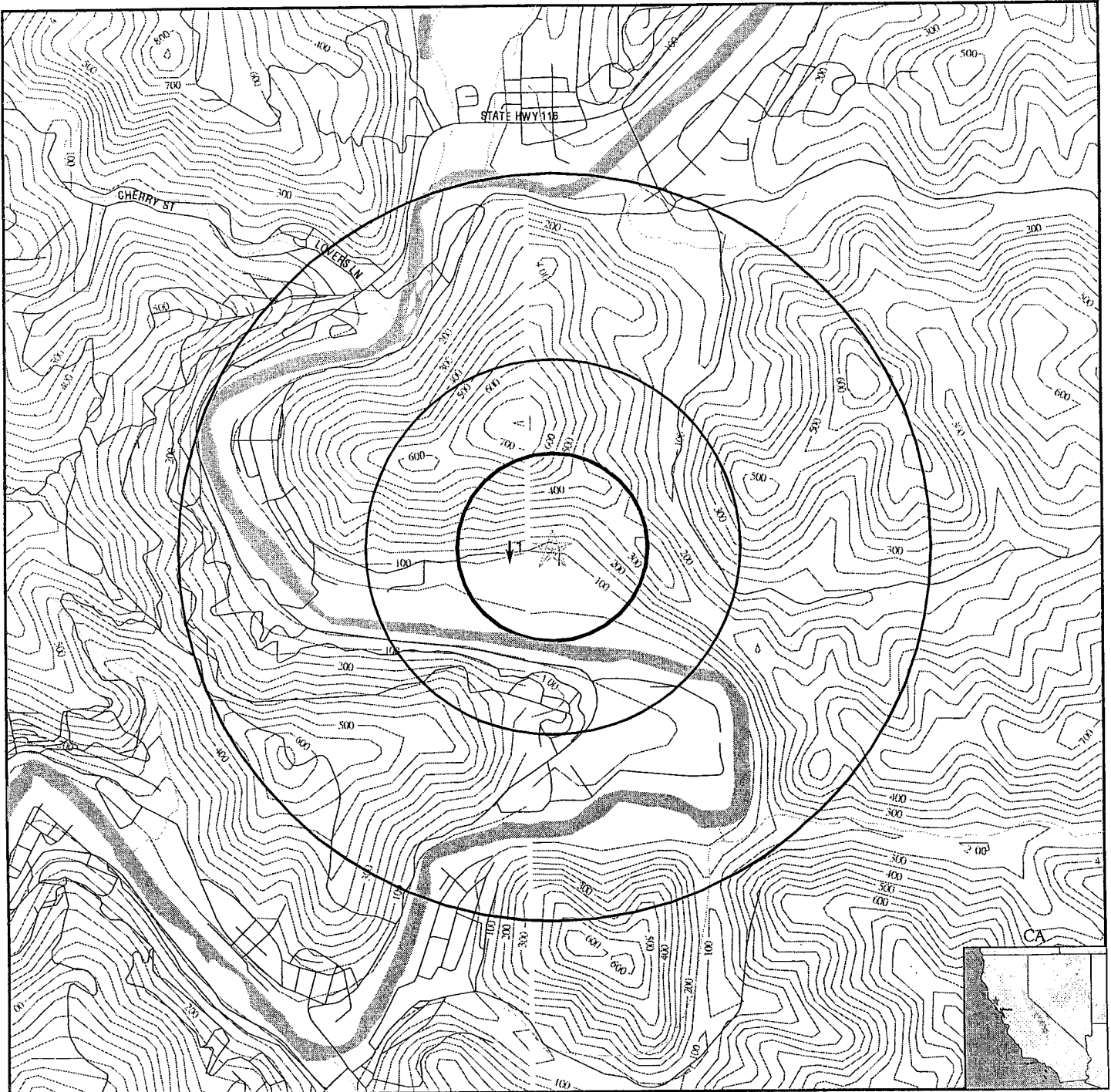
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 1687783.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- (GI) Indeterminate Groundwater Flow at Location
- (GV) Groundwater Flow Varies at Location
- (HD) Closest Hydrogeological Data
- Oil, gas or related wells

0 1/4 1/2 1 Miles

SITE NAME: Russian River Basin Storage Project
 ADDRESS: 18400 Neeley Road
 Guerneville CA 95446
 LAT/LONG: 38.4855 / 122.9989

CLIENT: AES
 CONTACT: Pete Connelly
 INQUIRY #: 1687783.1s
 DATE: June 02, 2006

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
West
0 - 1/8 Mile
Higher

Site ID: Not Reported
Groundwater Flow: S
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 19
Date: 03/16/1999

AQUIFLOW 54503

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95446	1	0	0.00

Federal EPA Radon Zone for SONOMA County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SONOMA COUNTY, CA

Number of sites tested: 78

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.437 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.700 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

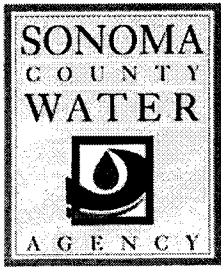
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APPENDIX B

NOTICE OF PREPARATION AND COMMENT LETTERS

NOTICE OF PREPARATION



NOTICE OF PREPARATION ENVIRONMENTAL IMPACT REPORT

August 18, 2006

TO: State Clearinghouse
Responsible and Trustee Agencies
Interested Agencies and Parties

FROM: Russian River County Sanitation District
c/o Sonoma County Water Agency
404 Aviation Boulevard
Santa Rosa, CA 95403

IRRIGATION RELIABILITY AND BENEFICIAL REUSE PROJECT

The Russian River County Sanitation District (District) is preparing an Environmental Impact Report (EIR) for the Russian River Wastewater Treatment Plant (WWTP) Irrigation Reliability and Beneficial Reuse Project (Proposed Project). The Sonoma County Water Agency (Agency), which operates the District's treatment plant under contract, will prepare the EIR on behalf of the District in accordance with the provisions of the California Environmental Quality Act (CEQA), the State CEQA guidelines, and the Agency's "Procedures for the Implementation of CEQA." The District will be the lead agency pursuant to CEQA. All comments from responsible and trustee agencies, property owners, and interested persons and parties regarding the scope and content of the environmental information to be included in the EIR will be considered. The following sections provide information regarding project location, background information, project need and objective, project description, and public comment period.

PROJECT LOCATION

The Proposed Project will be developed primarily along county roads in the general vicinity of the District service area and at the District treatment plant (**Figure 1**). The county roads that may be utilized for this project are located in a mixture of unincorporated urban areas, rural residential areas, and agricultural and forest lands in the Russian River Valley and Green Valley areas (**Figure 2**). The District service area covers approximately 2,700 acres and includes the unincorporated areas of Armstrong Park, Rio Nido, Guerneville, Guerneville Park, Vacation Beach, and the Drake Road area. The treatment plant is located outside the community of Guerneville at 18400 Neeley Road. The facility is situated approximately 2,500 feet north of the Russian River and is bordered on the north, east, and south by mixed evergreen forests. The Vacation Beach residential community is located west of the facility.

BACKGROUND INFORMATION

The District provides service to approximately 3,315 parcels using a gravity sewer system and eleven lift stations, treating wastewater from approximately 2,795 Equivalent Single-Family Dwellings (ESDs). The treatment plant was designed to treat an average daily dry weather flow (ADWF) of 0.71 million gallons per day (MGD). The District is currently permitted to provide tertiary treatment for an ADWF of up to 0.51 MGD and currently treats an ADWF of approximately 0.35 MGD.

The quality and quantity of allowable discharge from the District's WWTP to the Russian River is stipulated by requirements adopted in the Waste Discharge Requirements (WDRs) Order No. R1-2003-0026, which also serves as the District's National Pollutant Discharge Elimination System (NPDES) Permit (No. CA0024058). Current disposal methods include surface water disposal to the Russian River during the discharge season and land application at several irrigation sites during the reclamation season. Order No. R1-2003-0026 and the Water Quality Control Plan for the North Coast Region (Basin Plan) prohibit discharge of reclaimed water to the Russian River or any of its tributaries during the period of May 15 through September 30 of each year. During this period, the District must rely solely on the ability to irrigate the Northwood Golf Club and portions of forest land leased from adjacent property (owned by the Burch family) as the exclusive method of discharging reclaimed water. The reliability of this method is dependent upon several factors, including weather conditions, soil saturation, and in the case of the Northwood Golf Club, the user's ability to utilize the District's reclaimed water.

The NPDES permit limits irrigation (reclamation season) disposal capacity to 0.51 MGD; however, the actual amount of reclaimed water that is recycled through irrigation in any year is dependent on weather conditions, irrigation site conditions, and dry weather wastewater flow. Due to a lack of sufficient irrigation land area for recycling during the reclamation season, the District periodically struggles to properly recycle the current ADWF of 0.35 MGD on its existing irrigation sites under certain conditions, and cannot reliably recycle water at the treatment plant design capacity of 0.71 MGD ADWF. In addition, the District has been overly reliant on the Burch Property to offset reduced application rates at Northwood Golf Club.

Several storm events in May 1996 significantly increased dry season influent. Although the District had adequate treatment capacity at the facility, it lacked sufficient irrigation options to appropriately recycle the water entering the treatment plant. The District, therefore, had to irrigate under unfavorable weather and saturated soil conditions. Runoff from the leased irrigation areas resulted in the discharge of 201,000 gallons of tertiary treated effluent to the Russian River on May 21, 1996. As a result, Cease and Desist Order (CDO) No. 97-9 was issued by the RWQCB on January 23, 1997. CDO No. 97-9 was subsequently rescinded and replaced by CDO No. 97-76 on August 27, 1997. CDO No. 97-76 required the District to prepare a long-term solutions report to prevent discharging waste contrary to Waste Discharge Requirements. The long-term solutions recommended facility upgrades that included additional irrigation options.

The Occidental County Sanitation District (Occidental) and Camp Meeker Recreation and Park District (Camp Meeker) have been pursuing solutions to their own wastewater collection, treatment, storage, and disposal issues for many years. Occidental is required to comply with Regional Board CDOs in response to discharge violations. Camp Meeker is currently under a building moratorium and considered a Prohibition of Waiver Zone due to numerous septic system failures in the community. Occidental and Camp Meeker are developing an agreement to pursue a project to connect to the District's WWTP for treatment and disposal services and Camp Meeker is pursuing development of environmental compliance documents that would analyze the impacts of connecting Camp Meeker and Occidental to the District's WWTP.

Each community/entity would need to analyze the potential environmental impacts of their respective project to connect to the District treatment plant in accordance with the provisions of the California Environmental Quality Act (CEQA) and the State CEQA guidelines.

PROJECT NEED AND OBJECTIVE

The Proposed Project is needed to reduce the possibility of reclamation season discharge violations at the WWTP, satisfy the long-term solution as required by CDO No. 97-76, and provide additional flexibility to reliably accommodate the treatment and disposal needs of the District. The District has identified approximately 2,200 acres of rural and agricultural lands within the Russian River Valley and Green Valley areas that could potentially use recycled water.

The primary objective of the project is to provide the District with the flexibility to reliably accommodate periods of exceptional rainfall during the reclamation season, provide disposal options that allow operation of the treatment plant at its reclamation season design capacity of 0.71 MGD ADWF, and provide recycled water as a beneficial reuse to willing landowners.

Adding irrigation capacity to meet the treatment plant design capacity of 0.71 MGD ADWF could also allow the District to reliably treat and dispose of Occidental's and Camp Meeker's wastewater should those communities choose to pursue connection to the District's facilities to solve their respective sanitation, public health, and water quality issues.

The District is currently utilizing the maximum amount of irrigation disposal capacity available through the District's existing agreements. By locating willing landowners and providing them with recycled water, current reclamation season reliability and flexibility would improve, over reliance on the Burch Property would be reduced, and redundancy would be added to the system during process upset conditions.

The project would also assist the District in making recycled water available for beneficial reuse. The benefits of reuse include a reduction of groundwater pumping that may be creating stressed aquifer conditions in some areas. The replacement of groundwater pumping with recycled water in key agricultural areas, such as Green Valley, would contribute to the recovery of local groundwater supplies, which could enhance streamflows in adjacent streams that support steelhead and coho salmon. Enhanced streamflows could also contribute to improving habitat conditions for the recovery of salmonids and other aquatic organisms that inhabit the Russian River watershed.

PROJECT DESCRIPTION

The Proposed Project would provide a flexible and reliable recycled water distribution system serving water users in the Russian River Valley and Green Valley areas. The Proposed Project would consist of the construction, operation, and maintenance of recycled water pipelines; booster pump stations; storage tanks; associated appurtenances; and possibly energy recovery stations. As part of the project, the District would need to acquire access easements or purchase property adjacent to the pipeline route for the construction, operation and maintenance of various project components. The Proposed Project would also provide turnouts along pipelines for property owners to connect into the recycled water system.

The proposed recycled water pipelines would be placed primarily within existing public road right-of-ways and would distribute recycled water from the District treatment plant to portions of the Russian River Valley or Green Valley areas. The distribution system would provide recycled water to willing landowners, including rural and agricultural lands such as vineyards and orchards, to offset groundwater pumping for irrigation purposes.

The District is currently considering two proposed alternative pipeline routes to provide increased operational flexibility and reliability to the current recycled water distribution system: Alternative 1, which consists of approximately 15 miles of 8 to 14-inch pipeline and appurtenances in the Green Valley area, and Alternative 2 which consists of approximately 18 miles of 8 to 14-inch pipeline and appurtenances in the Russian River Valley area. Booster pumps would be added to the system as necessary, and could include upgrading the existing pumps at the WWTP and adding a remote booster station along the pipeline route. Booster pump stations would be used to maintain sufficient water pressure to transport recycled water through the distribution system.

Depending on the route, storage tanks would be used to sustain pressure in the recycled water distribution system, add operational storage capacity, and assist in meeting peak water demands. Storage tanks with a total storage of up to 1,000,000 gallons may be located at one or more system high points, to provide system storage to meet normally expected daily demands without the need for pumping during peak energy usage hours. Pumping during peak energy usage times increases the operating costs of the booster pumps and will be minimized by the use of appropriately sized tanks. The project may utilize existing off-stream storage reservoirs, which would also improve operational flexibility and reliability of the recycled water distribution system. Although locations of storage tanks and off-stream reservoirs have not yet been identified, generally they would be located in the general vicinity of the pipeline.

Energy recovery stations may be utilized in areas of high head, sufficient flow, and readily available power distribution infrastructure. Energy recovery stations would typically consist of a short section of bypass piping where recycled water would be supplied to a turbine generator that would generate power for sale to PG&E. The energy recovery stations would generally consist of a turbine generator mounted on a concrete slab, and enclosed in a small building with associated connecting pipelines and other appurtenances.

ISSUES TO BE ADDRESSED IN THE EIR

In accordance with CEQA, the EIR will address the potential environmental impacts associated with the Proposed Project. Specific areas of analysis will include: Aesthetics, Agricultural Resources, Air Quality, Biological Resources, Cultural Resources, Geology and Soils, Hazards and Hazardous Materials, Hydrology and Water Quality, Land Use and Planning, Noise, Population and Housing, Public Services, Recreation, Transportation and Traffic, and Utilities and Service Systems. The EIR will also analyze potential cumulative impacts related to the Proposed Project. Areas of analysis may be changed based on input received during the NOP review period. Mitigation measures will be proposed to avoid or reduce such impacts, where reasonably feasible.

The EIR will discuss alternatives to the Proposed Project and alternatives may be added based on input from the public and regulatory agencies during the NOP review period. Decision-makers, responsible and trustee agencies under CEQA, property owners, and interested persons and parties will also have an opportunity to comment on the EIR after it is published and circulated for public review.

PUBLIC COMMENT PERIOD FOR THIS NOTICE OF PREPARATION

Due to the time limits mandated by State law, your response to this NOP must be sent at the earliest possible date, but not later than 45 days after receipt of this notice. The public comment period for the NOP will close at 5:00 p.m.

on **October 6, 2006**. Please include a name, address, and telephone number of a contact person in your agency for all future correspondence on this subject. Please send your comments to:

**Russian River County Sanitation District
c/o Sonoma County Water Agency
Attn: Jeff Church, Senior Environmental Specialist
PO Box 11628
Santa Rosa, CA 95406-1628**

You may also submit comments electronically at the Agency's website:

www.sonomacountywater.org

OPEN HOUSE SCOPING MEETING

In order for the public and regulatory agencies to have an opportunity to ask questions and submit comments on the scope of the Irrigation Reliability and Beneficial Reuse Project EIR, a Scoping Meeting will be held during the NOP review period. The Scoping Meeting will use an Open House format. Agency staff will be available to answer questions and provide information about the project, but a formal presentation will not be made in order to allow interested parties to participate at anytime during the Open House. Written comment forms will be supplied for those who wish to submit written comments at the scoping meeting; written comments may also be submitted any time during the NOP review period. The date, time, and location of the Scoping Meeting are listed below:

**Wednesday, September 6, 2006
4:00 p.m. – 6:30 p.m.
Guerneville Veterans Memorial Hall
1st and Church Streets, Guerneville
Main Auditorium**

Documents or files related to the Irrigation Reliability and Beneficial Reuse Project are available for review at the Agency's Administrative Office located at 404 Aviation Boulevard, Santa Rosa, California, 95403.

If you have any questions, or if you wish to update your information on our mailing list, please contact Jeff Church, Senior Environmental Specialist, at (707) 547-1949.

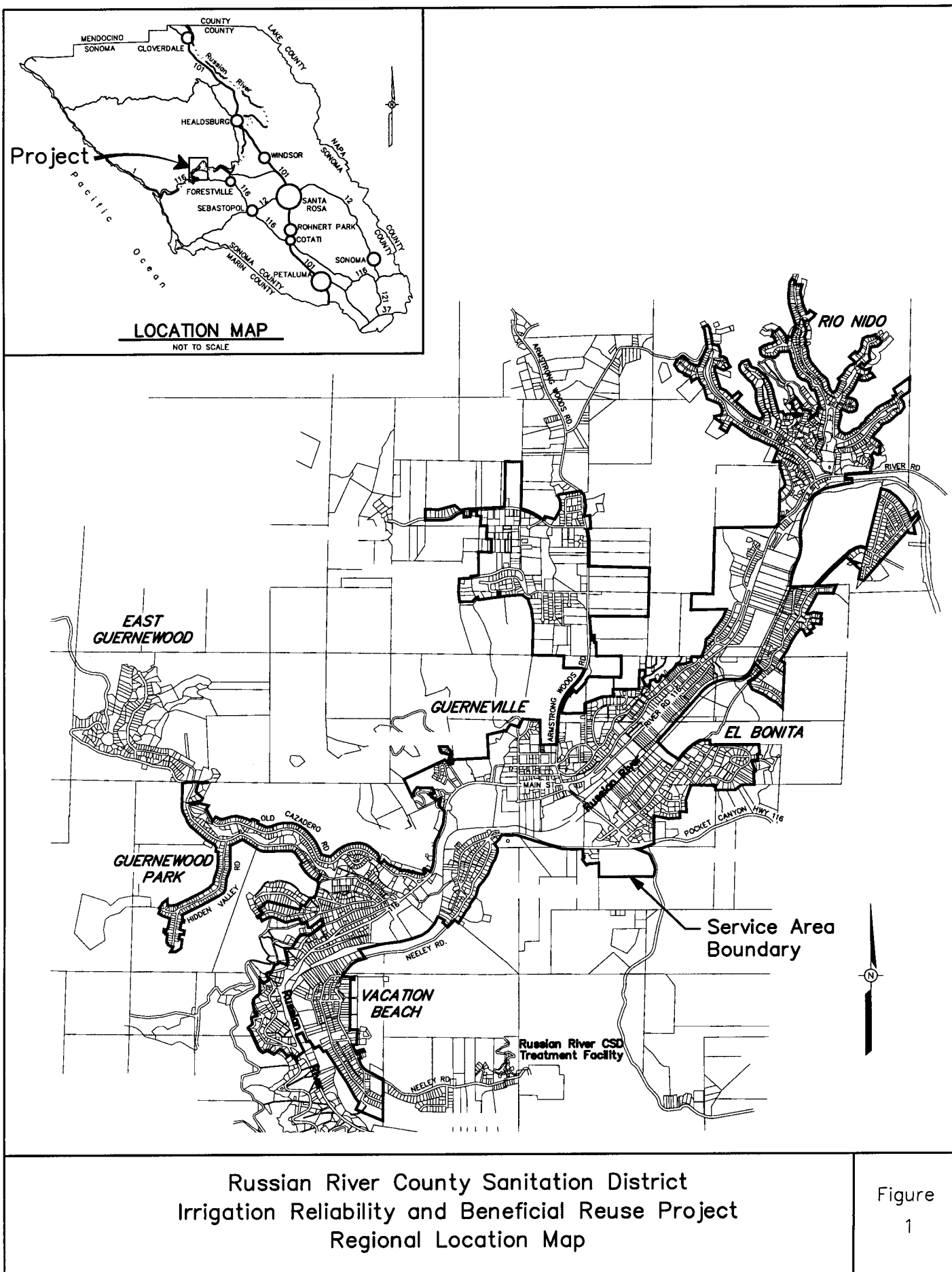
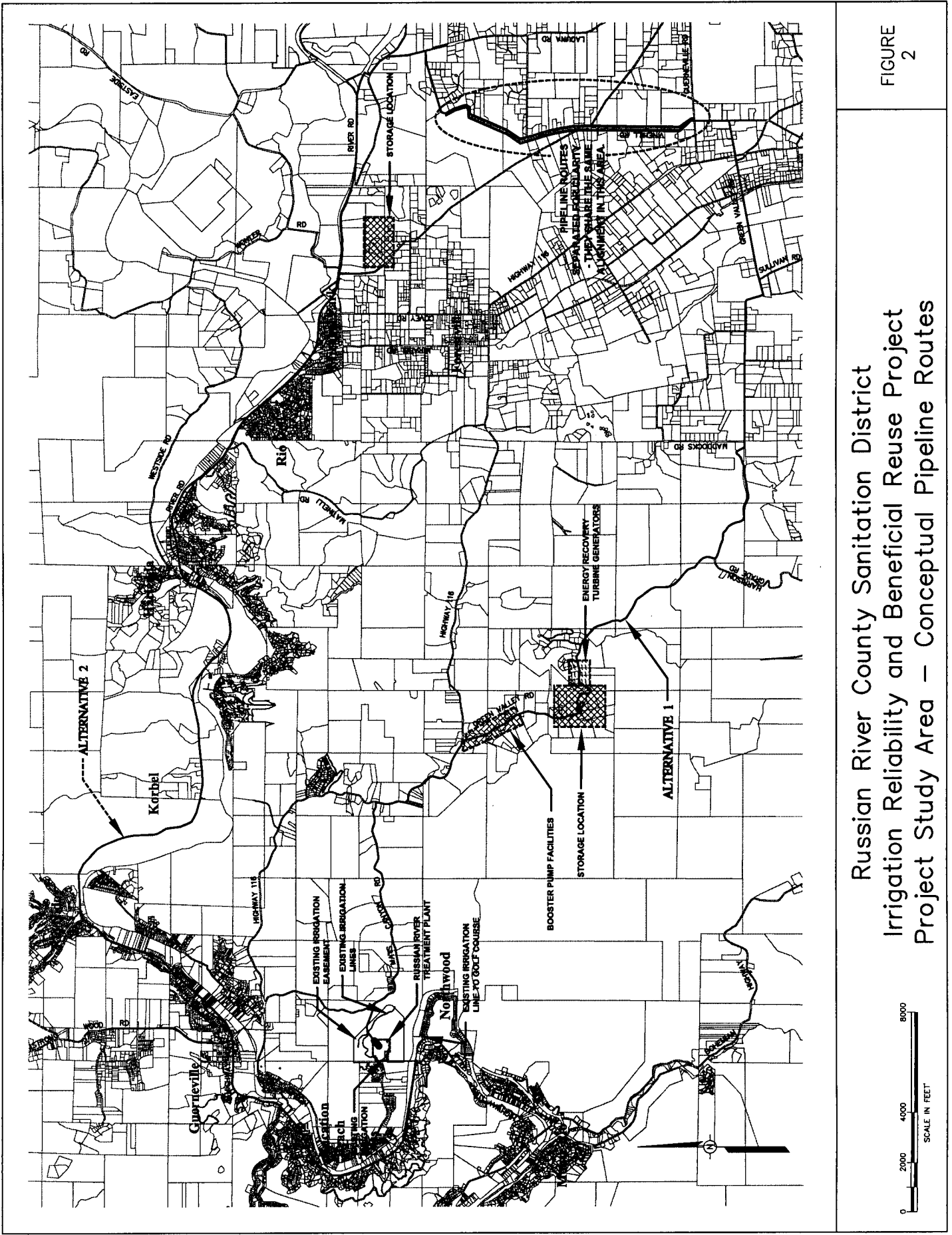


Figure
1



Russian River County Sanitation District
Irrigation Reliability and Beneficial Reuse Project
Project Study Area – Conceptual Pipeline Routes

COMMENT LETTERS

Public Comment Form:

RUSSIAN RIVER COUNTY SANITATION DISTRICT

PUBLIC SCOPING MEETING

IRRIGATION RELIABILITY AND BENEFICIAL REUSE PROJECT

MEETING COMMENTS

(Comment Due By October 6, 2006)

Scoping meeting location: Guerneville

I would like the following topics, issues, and/or concerns to be covered in the Draft Environmental Impact Report:

1. Ground water mgmt plan
2. Beneficial reuse in forest land preferred,

I would like to make the following statement: LOOK AT Martinelli Rd.

1. Parcels Miller, Young, Martinelli S. Martinelli L. Martinelli dr etc.
2. Graton CSD would like to meet and consult regarding location, overlap avoidance and cooperative opportunities if such exist. We are doing a Ground Water mgmt plan
3. You will need a Ground Water Plan for State money like Prop 50 etc.

(If you need additional room, please use reverse side)

Name: Bob Rawson General Manager. Phone Number: (707) 887-1811 Cell 318-200

Affiliation: Graton Community Services Dist. FUST C.T. for Sensible Growth

Address: P.O. Box 157 Sebastopol, CA 95472

E-mail address: iws@sonic.net

Would you like your name to be added to the mailing list for this project? If you are on the mailing list you will receive notification of public meetings and notice of publication of environmental documents.

☒ YES ☐ NO

Note: Fill this out today before you leave the scoping meeting or mail your comments to Jeff Church, SCWA, P.O. Box 11628, Santa Rosa, 95406. (Comment Due By October 6, 2006).

Public Comment Form:

RUSSIAN RIVER COUNTY SANITATION DISTRICT

PUBLIC SCOPING MEETING

IRRIGATION RELIABILITY AND BENEFICIAL REUSE PROJECT

MEETING COMMENTS
(Comment Due By October 6, 2006)

Scoping meeting location: Guerneville

I would like the following topics, issues, and/or concerns to be covered in the Draft Environmental Impact Report: DISCLOSE AND DISCUSS THE ABILITY TO ADD LANDS ADJACENT TO RR CSD BOUNDARIES TO ANNEX AND OBTAIN SERVICE FOR MINOR INCREASES IN DENSITY (PARTICULARLY IN VACATION BEACH AREA NEAR THE TREATMENT PLANT)

DISCLOSE AND EVALUATE ABILITY TO ANNEX AND BE SERVED ON LANDS CURRENTLY NOT SERVED BUT ADJACENT TO COLLECTION PIPELINES IN THE VICINITY OF THE RR TREATMENT PLANT.

DISCLOSE POTENTIAL SITES FOR STORAGE TANK LOCATION AND ANALYZE IMPACTS TO IMMEDIATE NEIGHBORING PROPERTY OR POSE LESS IMPACT CASEN ALTERNATIVES.

I would like to make the following statement: EVALUATE ALL IMPACTS ASSOCIATED WITH HAVING APR 071-210-032 WETPUMP APPLICATION PROGRAM.

(If you need additional room, please use reverse side)

Name: Jim Olmsted Phone Number: () 599-6270

Affiliation: OLMSTED & ASSOCIATES. PLANNING CONSULTANTS

Address: 438 First Street, 4th Floor Santa Rosa CA 95401

E-mail address: oaplan@aol.com

Would you like your name to be added to the mailing list for this project? If you are on the mailing list you will receive notification of public meetings and notice of publication of environmental documents.

☒ YES ☐ NO

Note: Fill this out today before you leave the scoping meeting or mail your comments to Jeff Church, SCWA, P.O. Box 11628, Santa Rosa, 95406. (Comment Due By October 6, 2006).

Public Comment Form:

RUSSIAN RIVER COUNTY SANITATION DISTRICT

PUBLIC SCOPING MEETING

IRRIGATION RELIABILITY AND BENEFICIAL REUSE PROJECT

MEETING COMMENTS
(Comment Due By October 6, 2006)

Scoping meeting location: Guerneville

I would like the following topics, issues, and/or concerns to be covered in the Draft Environmental Impact Report:

- ① Find as land close as possible to existing storage tanks
- ② Actively solicit + advertise for land owners to participate in water dispersal on their lands close to existing tanks
- ③ We live near Forestville location of 2-65x25' tanks. We are very concerned for visual impact, smell, activity, construction impact.
- ④ Explore tanks ~~on~~ supplying West Side Rd with the many vineyards there.

I would like to make the following statement:

(If you need additional room, please use reverse side)

Name: Tatiana Tamar Phone Number: (707) 887-2768

Affiliation: _____

Address: P.O. Box 278

E-mail address: princesstania@earthlink.net

Would you like your name to be added to the mailing list for this project? If you are on the mailing list you will receive notification of public meetings and notice of publication of environmental documents.

☒ YES ☐ NO

Note: Fill this out today before you leave the scoping meeting or mail your comments to Jeff Church, SCWA, P.O. Box 11628, Santa Rosa, 95406. (Comment Due By October 6, 2006).

Public Comment Form:

RUSSIAN RIVER COUNTY SANITATION DISTRICT

PUBLIC SCOPING MEETING

IRRIGATION RELIABILITY AND BENEFICIAL REUSE PROJECT

MEETING COMMENTS

(Comment Due By October 6, 2006)

Scoping meeting location: Guerneville

I would like the following topics, issues, and/or concerns to be covered in the Draft Environmental Impact Report:

Use North Bridge Rd as pipeline route, create
Storage for fire fighting at Bohannon Curve
Add Fire Hydrants along pipeline route

I would like to make the following statement:

(If you need additional room, please use reverse side)

Name: Tom Cookshank Phone Number: ()

Affiliation: _____

Address: _____

E-mail address: _____

No Address

Would you like your name to be added to the mailing list for this project? If you are on the mailing list you will receive notification of public meetings and notice of publication of environmental documents.

____ YES ____ NO

Note: Fill this out today before you leave the scoping meeting or mail your comments to Jeff Church, SCWA, P.O. Box 11628, Santa Rosa, 95406. (Comment Due By October 6, 2006).

*

Public Comment Form:

RUSSIAN RIVER COUNTY SANITATION DISTRICT

PUBLIC SCOPING MEETING

IRRIGATION RELIABILITY AND BENEFICIAL REUSE PROJECT

MEETING COMMENTS
(Comment Due By October 6, 2006)

Scoping meeting location: Guerneville

I would like the following topics, issues, and/or concerns to be covered in the Draft Environmental Impact Report:

1. A ROUTE FOR ALTERNATE #1 SHOULD INCLUDE THE STUDY OF USING THE BOHO GROVE NORTH FIRE ROAD THEREBY AVOIDING THE DIGUP OF MAYS CANYON.

2. THE MAYS CANYON ROUTING (ALTERNATE #1) WILL LIKELY UPSET THE INDIVIDUAL PROPERTY WATER SHEDS IN A VERY SCARCE WATER AREA. SOME PROPERTIES MAY BENEFIT, SOME SUFFER. BACK FILL OF THE TRENCHING SHOULD BE POROUS.

I would like to make the following statement:

3. MAYS CANYON HAS LITTLE WATER TO FIGHT FIRES. WATER HYDRANTS SHOULD BE FREQUENTLY PLACED USING THE PRESSURIZED WATER.

4. ALTERNATE #1 IMPACTS RURAL PROPERTIES THAT DO NOT BENEFIT FROM THE BEING OUTSIDE THE SANITATION DISTRICT. THIS IS OBJECTIONABLE.

(If you need additional room, please use reverse side)

Name: DIRCK BASS Phone Number: (707) 887-7007

Affiliation: PORTER BASS VINEYARDS

Address: 11750 MAYS CANYON

E-mail address: DIRCK@SONIC.NET

I PROTEST
ROUTE BY BOHO
OR USE
ALTERNATE #2

Would you like your name to be added to the mailing list for this project? If you are on the mailing list you will receive notification of public meetings and notice of publication of environmental documents.

☒ YES ☐ NO

Note: Fill this out today before you leave the scoping meeting or mail your comments to Jeff Church, SCWA, P.O. Box 11628, Santa Rosa, 95406. (Comment Due By October 6, 2006).

Public Comment Form:

RUSSIAN RIVER COUNTY SANITATION DISTRICT

PUBLIC SCOPING MEETING

IRRIGATION RELIABILITY AND BENEFICIAL REUSE PROJECT

MEETING COMMENTS

(Comment Due By October 6, 2006)

Scoping meeting location: Guerneville

I would like the following topics, issues, and/or concerns to be covered in the Draft Environmental Impact Report: Re: Green Valley Rd. - should a pipeline be installed here, it would be in close proximity to the 4" ACP water lines that serve Larkin Woods Mutual Water Co. I am the watermaster there & have repaired many breaks in the past, many caused by land movement sometimes caused by heavy trucks & in bottom land that may settle. Larkin Woods is located 1 mi. west of the intersection of G.V. Rd & Harrison Grade Rd.

The engineering problems of running a line thru Mays Canyon Rd & Green Valley Rd must be enormous.

The residue of untreated products even in tertiary treated wastewater include "pharmacy soup" ie - medicines that are not able to be removed thru treatment. This single issue is a growing cause of concern not only to the public, but to I would like to make the following statement: wastewater treatment plants in general. More & more is becoming known of the serious potential of harm to not only water users but the animals, particularly amphibians & water life.

If this plan should be built - the best place to dispose of water is high up on ridges in a forest land environment. Forest lands contain a richness of micro biological matter that can truly help break down & filter the water. Disposing of

(If you need additional room, please use reverse side)

Name: John Roberts Phone Number: (707) 887-0514

Affiliation: Watermaster Larkin Woods Mutual H₂O, Board Member Atascadero Green Valley Creek Waters Council

Address: 13808 Green Valley Rd Sebastopol

E-mail address: jahilltop@earthlink.net

Would you like your name to be added to the mailing list for this project? If you are on the mailing list you will receive notification of public meetings and notice of publication of environmental documents.

X YES NO

Note: Fill this out today before you leave the scoping meeting or mail your comments to Jeff Church, SCWA, P.O. Box 11628, Santa Rosa, 95406. (Comment Due By October 6, 2006).

this water in low lying flatlands greatly increases the potential of pollution to groundwater and waterways and creeks that are so important to the health of the environment.

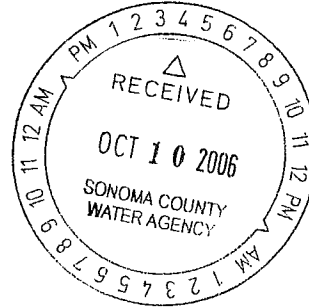
I do believe that a concentrated effort to promote conservation is the first & most important step, not just for this project but for the county as a whole.

DEPARTMENT OF TRANSPORTATION

111 GRAND AVENUE
P. O. BOX 23660
OAKLAND, CA 94623-0660
PHONE (510) 286-5505
FAX (510) 286-5559
TTY (800) 735-2929



*Flex your power!
Be energy efficient!*



October 5, 2006

SON116511
SON-116-17.4
SCH # 2006082055

Mr. Jeff Church
Russian River County Sanitation District
c/o Sonoma County Water Agency
P.O. Box 11628
Santa Rosa, CA 95406-1628

Dear Mr. Church:

Irrigation Reliability and Beneficial Reuse Project – Notice of Preparation (NOP)

Thank you for including the California Department of Transportation (Department) in the review process for this project. We reviewed the NOP and have the following comments:

Cultural Resources

Should project plans include construction activities within State right-of-way (ROW) for this project, Caltrans requires documented results of a current archaeological record search from the Northwest Information Center (NIC) of the California Historical Resources Information System before an Encroachment Permit can be issued. Current record searches must be no more than five years old. The Department requires the records search, and if warranted, a cultural resource study by a qualified, professional archaeologist, to ensure compliance with NEPA (if there is federal action on the project), CEQA, Section 5024.5 of the California Public Resources Code (for state-owned historic resources) and Volume 2 of the Department's Environmental Handbook (Caltrans Standard Environmental Reference (SER) at <http://www.dot.ca.gov/hq/env/index.htm>). Work subject to these requirements includes, but is not limited to: lane widening, channelization, auxiliary lanes, and/or modification of existing features such as slopes, drainage features, curbs, sidewalks and driveways within or adjacent to State ROW.

Encroachment Permit

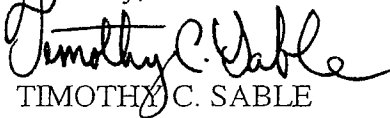
Please be advised that any work or traffic control within the State ROW will require an encroachment permit from the Department. To apply for an encroachment permit, submit a completed encroachment permit application, the approved environmental document, and five (5) sets of plans which clearly indicate State ROW to the following address:

Mr. Jeff Church/Russian River County Sanitation District
October 5, 2006
Page 2

Ms. Julie Hsu
Office of Permits
California Department of Transportation, District 04
P. O. Box 23660
Oakland, Ca 94623-0660

Should you require further information or have any questions regarding this letter, please call or email Ina Gerhard of my staff at (510) 286-5737 or ina_gerhard@dot.ca.gov.

Sincerely,



TIMOTHY C. SABLE
District Branch Chief
IGR/CEQA

c: State Clearinghouse

COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
2300 COUNTY CENTER DRIVE, SUITE B 100
SANTA ROSA, CALIFORNIA 95403

David D. Knight, Director



AREA CODE (707)

ROADS	565-2231
TRANSIT	585-7516
REFUSE	565-7940
AIRPORT	565-7243
AIR POLLUTION	433-5911
FAX	565-2620

www.sonomacountypublicworks.com

Russian River County Sanitation District
c/o Sonoma County Water Agency
79040)

Attn: Jeff Church, Senior Environmental Specialist
P.O. Box 11628
Santa Rosa, CA 95406-1628

October 5, 2006

RE: River Road (8802B)

Green Valley Road (7002) KEEP/BOARD
SONOMA COUNTY WATER AGENCY

OCT 20 2006

PROJ/RUSSIAN RIVER CSD IRRIGATION EXPANSION
(Agree. For Environmental Compliance Services)
70-13-7 #__ TW# 05/06-96

Subject: Response to NOP - Russian River WWTP Irrigation Reliability and Beneficial Reuse Project

The Transportation and Public Works (TPW) Department has reviewed the Notice of Preparation and has the following comments listed below:

General Comments

An agreement between SCWA and the county will need to be executed along the lines of the agreement executed between the City of Santa Rosa and the county for the design and construction of the Geysers Pipeline project. This agreement may be used in-lieu of an encroachment permit. County Counsel will need to review and approve the agreement. Copies of that agreement can be supplied if requested.

The TPW prefers the Alternative 1 route due to significantly less traffic volumes as compared to the Alternative 2 route. Additionally, Alternative 1 has more ground instability concerns along the right-of-way.

Construction Issues

Typical construction hours are limited to one-half hour after daylight to one-half hour before night-time. Night-time construction may be necessary at certain locations due to potential daytime traffic impacts. Saturday construction is allowed but the hours of work are more restricted. Construction is limited to April 15 to October 15. All road restoration work shall be completed and all contractors operations shall be completed by October 15.

Traffic Issues

Emergency access shall be maintained at all times on all roads.

Traffic detours are encouraged for traffic safety purposes and to expedite the construction schedule. Local traffic will still need to be provided access to their parcels. Mail delivery, garbage pick up, school buses, etc., will need local access also. Detour plans need to be developed by a licensed traffic engineer and shall be made part of the project plans.

More than one work zone may be acceptable in order to expedite work if traffic concerns can be addressed.

Mays Canyon is extremely narrow in width and will require special coordination to provide access to homeowners and access for regular service vehicles.

SCWA shall be responsible for reviewing traffic safety of the work zone during the work day and at the end of the work day for conformity to the project or encroachment requirements. Field review of night time work zone conditions will be required to check on the adequacy of traffic safety devices.

SCWA will designate a staff person who will be in responsible charge of the project, not a consultant. This designee shall be available to address construction issues on a daily basis and will be responsible for implementing changes when needed for public safety.

Portable message board signs shall be used at each end of work zone and intersections within the zone for public information and safety.

Public Information

SCWA will responsible for all public communication. During construction, SCWA will have staff dedicated to answering questions from the public and dealing with complaints regarding traffic concerns and access. Information phone numbers, e-mail, and web-site information shall be set up for public contact purposes.

Construction Details

Trench cuts shall be backfilled with material designed to expedite the construction schedule and minimize the possibility of trench settlement. A licensed civil engineer will provide a final compaction and material quality assurance report for the work. The trench section shall be constructed to typical encroachment permit requirements. An alternative trench section may be developed to minimize the trench width or change trench details if the roadway is paved over completely. It is anticipated that the trench construction work will damage the existing roadway in areas where the existing road has minimal structural section. Roadway repairs will be necessary and should be anticipated. Expect to overlay completely the roads in Alternate 2 and roads within the Vine Hill area. The Geysers Pipeline Agreement has language regarding road repair.

Trench plates usage will be subject to Caltrans requirements for surface texture and milling of surface. Plates are not be allowed within the travel lane when used parallel to traffic direction. Plates are difficult set flush to the surface on roads that are uneven, crowned, and in curvature. This is particularly true when the trench alignment does not follow the traffic lane which is typical on pipeline projects. A discussion for trench plates usage within local traffic only situations (detour) or under a flagging operation should occur. A licensed civil engineer shall approve the use of plates.

The pipeline alignment design shall take into account road concerns such as manholes being located within the crown and designs that minimize pipe deflections as the expense of crossing over road center lines repeatedly. Trenches and manholes located within a lane allow for more travel room for the traveling public through a work zone. This is particularly true on narrow

roads.

SCWA will need to coordinate connection of pipelines to bridges with TPW. Culverts that are cut as a result of trench operations shall be completely replaced. Splicing will not be allowed. TPW should be given alignment plans as soon as possible for field check review and comments. TPW may elect to upsize culverts and have the contractor install them during pipeline construction.

Following all restoration work, all center line and edge line striping shall be re-painted and all pavement markers shall be restored in-kind. This includes all stripes, pavement markers, and thermoplastic legends within the project limits. A signs shall be replaced and reflective sight posts replaced.

All ditch lines shall be restored for drainage purposes.

Temporary centerline pavement markers shall be installed at the end of each workday.

Trench segments shall be backfilled and paved every Friday.

Environmental

Extensive pruning and root cutting may be necessary due to trench cuts. A certified arborist shall review pruning for proper cutting practices and root damage caused by excavation.

Specifications/Agreement

County Counsel will need to review specifications from a road department standpoint.

Project will be subject standard encroachment requirements for insurance and hold harmless certification.

Right-of-Way

Extraterritorial rights for right-of-way acquisition may be necessary for pipeline installation in road segments that are not in fee.

Staging near Korbelt needs to be discussed with TPW. There is a question over ownership.

Miscellaneous

River Road near Mirabel Road has been overlayed with rubberized asphalt concrete. Pavement restoration details will need to be discussed with TPW.

Between Mirabel and Hacienda on River Road there are a number of areas where there are signs of instability. Future retaining walls with tiebacks may need to be constructed which will pose a problem with the proposed pipeline location. These locations should be discussed with TPW prior to committing to the River Road alternative.

A viaduct just south of Rio Nido on River Road will be constructed in 2007. Alignment of the

pipeline may be a problem in this narrow location.

A major slide repair on River Road is planned near River Bend campground in 2007.

A future left turn channelization project in River Road in Rio Nido is planned in the near future.

There is a subway existing under River Road at Rio Nido.

The City of Santa Rosa shows a pipeline alternative going along River Road from Slusser Road to Steelhead Beach for possible construction within the next five years.

If you any questions or want to set up a meeting to discuss these comments please call me at 565-2528. Thank you your time and attention.

Sincerely,

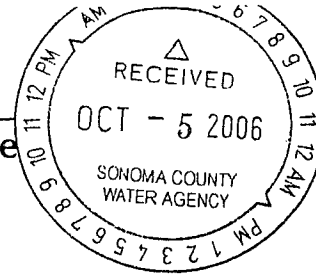


John Maitland

Engineering Division Manager

RRWPC

Russian River Watershed Protection Committee



Post Office Box 501
Guerneville, CA 95446
(707) 869-0410

RRWPC Scoping Comments on: IRRIGATION RELIABILITY & BENEFICIAL REUSE PROJECT

By Brenda Adelman
Submitted Oct. 6, 2006

These comments are in response to the Notice of Preparations (NOPs) dated August 11, and August 18, 2006, for the Irrigation Reliability & Beneficial Reuse Project (Project). NOPs were prepared by the Sonoma County Water Agency on behalf of the Russian River County Sanitation District.

For the record, we attended the Open House Scoping Meeting on Wed. Sept. 6, 2006. We note that several people in attendance expressed frustration that there were no chairs, no presentations, and no way of knowing what questions were being asked, nor what staff responses were given. This kind of session is virtually worthless in terms of educating large numbers of people about the project. Furthermore, staff appeared misinformed about some issues I inquired about. I also saw no note taking, so it is hard to know how issues raised by citizens will be addressed. Why was no record taken of citizens concerns?

PROJECT ONLY PART OF RRCSD EXPANSION & REGIONALIZATION

Sonoma County Water Agency (SCWA) released two NOPs a week apart for the Russian River County Sanitation District (RRCSD) Irrigation Project. The difference between them is significant, in that it discloses the crux of one of our main concerns. The irrigation project proposal represents only a piece of a larger project and as such, should be dealt with in a comprehensive EIR that addresses all relevant impacts. (Please see letter on this topic submitted by Ellison Folk of Shute, Mihaly, and Weinburger on behalf of RRWPC.) CEQA states (15003 (h)) that, *"The lead agency must consider the whole of an action, not simply its constituent parts, when determining whether it will have a significant environmental effect."*

Between the first and second NOP, inclusion of the town of Monte Rio was eliminated. It was our understanding that this represented a miscommunication between Fifth District Supervisor and SCWA staff. SCWA has considered the hookup of Monte Rio a distinct possibility and recent documents have indicated this is indeed the case. Supervisor Reilly, on the other hand, expressed concern that certain grant funds may be lost for the pending Monte Rio project if the NOP indicated that another project (hookup to RRCSD) was in the works. In any case, it is clear that in the eyes of SCWA at least, Monte Rio hookup to RRCSD is still a possible alternative. Should funds fall through on that project, it is likely that the County PRMD would take steps to hook Monte Rio up to RRCSD. Furthermore, this project is so very over sized, we cannot help but assume that it could include Monte Rio, if need be. Therefore, a comprehensive EIR that includes Monte Rio

should be developed and all appropriate environmental impacts should be addressed.

THIS PROJECT IS 1 OF 4 PLANNED FOR RRCSD REGIONALIZATION

Further indication that the irrigation project is part of an overall expansion for the RRCSD, the Irrigation Project NOP states on page 2, *"Occidental and Camp Meeker are developing an agreement to pursue a project to connect to the District's WWTP for treatment and disposal services and Camp Meeker is pursuing development of environmental compliance documents that would analyze the impacts of connecting Camp Meeker and Occidental to the District's WWTP."* Then, *"Each community/entity would need to analyze the potential environmental impacts of their respective project to connect to the District treatment plant in accordance with the provisions of the California Environmental Quality Act (CEQA) and the State CEQA guidelines."*

A separate NOP, released by the Camp Meeker Park & Recreation Department (CM) Sept. 15, 2006, addresses sewer hookup of that community and Occidental to the RRCSD. We attach that NOP to this letter. It claims that prior EIR's were for projects that turned out to be infeasible and/or unaffordable. It is ironic that by segmenting the RRCSD projects, it may never become clear to CM and OCSD how project costs compare, even though an assumption of affordability has been built into their NOP. CEQA would simply not allow such fragmentation. (We include a 2002 letter in packet where Supervisor Reilly states Camp Meeker/Occidental hookup to RRCSD is not affordable.)

Another NOP (attached) had been released March 3, 2006 for the Equalization Basin Storage Project (our comments attached). We assume the EIR for that project is proceeding forward. Finally, in addition to other assorted small projects, the RRCSD is under orders from the Regional Board to upgrade the disinfection system at the RRCSD treatment plant. The inadequacy of this system prevents reliable treatment for pathogens, which are the source of most of the system's NPDES violations almost every winter.

So here we are awash in at least four major projects, all of which are intimately connected to the regionalization of the RRCSD, showing a blatant disregard for the CEQA process. There should be one NOP, calling for project identification and disclosing all impacts, including cumulative, growth inducing, environmental, and financial, among others. The current state of affairs is a gross abrogation of the intent of environmental law.

Finally, we note that the intention of the Agency in regard to future capital improvement expenditures for RRCSD can be viewed in the County of Sonoma Capital Project Plan for 2004-2009. Why is it, that for the next five years, only \$50,000 per year (total projected cost: \$250,000) is projected for the Facilities Expansion (irrigation AND disposal)? Yet \$2 million is being projected in 2006-07 budget for the storage project. How serious is this current proposal? Why have so few District funds been allocated for this irrigation project? Could grants and loans be anticipated to pay for this project that might not have been included in the projections?

IRRIGATION PROJECT GROSSLY OVER-SIZED

While we agree that some minimal new irrigation area is necessary to safely dispose of summer effluent needing discharge, we maintain that the proposed system is grossly oversized. CDO No. 97-76 never required the District to come up with a project of this scope. It merely called for additional irrigation area to avoid a repeat of the May, 1996 situation. Apparently SCWA has somehow managed to do that for the last ten years, since there have been no known additional summer spills for which Administrative Civil Liabilities (ACLs) have been issued by the North Coast Regional Board. Besides, if added equalization basin storage is planned, the May, 1996 situation becomes irrelevant anyway.

We fail to understand why a 15-18 mile pipeline to irrigate a crop requiring minimal water use rather than irrigate redwoods close to home. I believe the 1998 EIR or a separate report about that time, identified parcels in the Armstrong Valley area of Guerneville capable of using irrigation water. Furthermore, Korbel has vineyards in the Armstrong Valley as well, a fact unknown to SCWA staff when asked about the issue. In addition, potential expansion of the Burke property irrigation also should be analyzed.

The NOP calls attention to current irrigation capacity uncertainty due to summer variable conditions such as weather, soil, irrigation site and flow. It claims that the District "struggles" to properly recycle ADWA of 0.35 MGD. We wonder, if the expansion is for current ratepayers only, why should ADWF grow to the full capacity of 0.7 MGD as a result of this project? If the expansion is for new hookups, why would a complete EIR for a regional treatment and disposal system not be necessary? Either this project is to adequately serve current ADWF or it is to serve expansion of the system. If for expansion, the document needs to fulfill the demands of CEQA in this regard.

We ask that SCWA identify other anticipated users of the RRCSD system to justify the need for a project of this size. In other words, if you are looking to build an irrigation project to serve the full 700,000 GD design capacity of the system, and if current ADWF is about 0.35 MGD, who is going to use (and pay for) the 0.35 MGD remaining capacity? How many new hookups does this represent? Also, it is noteworthy that for other components, such as storage, the Agency doesn't appear to be concerned about developing capacity to treat the worst flood flows, yet for summer irrigation purposes, the potential capacity design appears far greater than it needs to be. Please explain this apparent disparity.

We also ask for a flow analysis indicating how much irrigation area is actually needed for current ratepayers and how much for various other potential users. Information is needed about summer flow regimes. Since this is an underutilized system during the summer months, we need to know how much is being utilized by the current irrigation system, apart from excessive applications. In former documents, we estimated a need of about 200-300 AFY total irrigation capacity. This project, similar to the one proposed in the 1998 EIR, is projected to provide about 1300 AFY. A careful analysis of the exact needs of the current ratepayers

should be analyzed and the amount of irrigation land necessary to serve that need. 2200 acres sounds very excessive and needs to be justified.

How will the costs for such an extensive system be allocated between current ratepayers and new hookups? Is there a plan to include the roughly 750 parcels contingent to the current district borders identified by SCWA on a 1998 map of the RRCSD Area?

We agree that current irrigation is inadequate for current flows, but an assessment of actual additional needs would be necessary. We guess that this project really only needs to add capacity for about 25 mgd per year, in order to satisfy ACL requirements. We multiplied a generously estimated 0.45 mgd average use by the number of days in the discharge prohibition season and came up with 60 mg for the season. We assume that current irrigation areas would continue to take about 35 mg over the season and that 25 mg additional capacity is the most that would be necessary. Are these calculations reasonable? If not, why not? Please address this issue in detail.

The scope of this project should be justified by determinations of the amount of irrigation acreage needed to serve current flows under most scenarios (including an analysis of water use by various crops, including vineyards and redwood trees, and soil types). The May, 1996, weather example was unusual and extreme, and it is noteworthy that no current examples were provided.

According to the 1998 EIR, addressing the Green Valley irrigation alternative, the EIR states, *"The Green Valley Area contains over 1,000 acres of existing agricultural properties that could utilize the District's treatment facility. The Agricultural use in these areas consists of apple orchards, which utilize an average of 2' of water per acre per year, and vineyards which utilize between ½ to 1 foot of water per acre per year."* Where does the 2200 acres noted in the NOP come from, since the service area maps look virtually the same as the 1998 EIR? Also, most of the apple orchards have since been converted to vineyards. So analysis needs to include the number of vineyard acres seriously interested in order to determine the actual water needs of these properties. The 1998 EIR identified specific parcels and owners and crops along with estimates of irrigated water use. Please do a similar analysis in this current EIR.

The parcels noted in the prior EIR contained about 1500 acres (disparity between list of parcels noted and project description where 1000 acres were noted) and utilized about 300 mg of water annually. The new EIR should revisit this information, and update the water use of the parcels that have continued interest in this project. Since, in our estimate, RRCSD really only needs capacity for about 25 mg, it hardly seems cost effective to build this project. We would hope that all these issues would be thoroughly addressed.

A thorough analysis of weather patterns for years of record needs to be examined. The justification for this project is based on the need to address water balance issues in an environmentally sound way. We agree that too much reliance on the current irrigation areas has caused problems, yet believe this

proposal is a gross over-sizing of what is necessary to solve the problem for current ratepayers. We believe that simple, inexpensive, local solutions exist, and, at a minimum, should be carefully studied for their viability. We recommend examining irrigation opportunities in the Armstrong Valley area and on the Burch property and any other possible opportunities as well.

It is of great concern to us that you are sizing this project to regional proportions, without providing the required CEQA analysis for such an expansion. Furthermore, you need to analyze how disposal needs may have changed since the recent treatment plant expansion was completed. Similarly, there is new storage being processed through a separate CEQA process (illegally in our view) that will also have an impact on the functioning of this system and the irrigation needs that will result. How will the anticipated new storage impact the needs for this project? It seems as though the May 1996 situation may have easily been addressed with the new storage being planned. If that is the case, why is this project even necessary?

We also wonder about the size of the pipelines. This NOP states that pipes will be sized from 8" to 14", yet the pipes in the 1998 plan went from 4" to 8" in diameter. What is this size difference all about? What are you really trying to do here? Please explain the disparity in detail!

Similarly, we wonder what the anticipated 2200 acres is based on? What agreements are in place assuring those acres are committed to the project? Have property owners recently been approached regarding their interest, or have assumptions been made based on their interest eight years ago? Might a lot of money be spent on documents and construction without the full commitment of potential contractors? How would the irrigation contracts be structured? What assurances would be put in place to prevent over-irrigation? How much might the vintners pay for the use of the water? Who would control how much water they take and when they take it? For a project that may cost as much as \$20 million dollars, these contractual terms need to be tied down.

If the expectation is that the 2200 is only an estimate, we need to know how many acres are actually willing to commit to the project. Who are the current willing users of the effluent? What are the concerns about irrigation premium grapes with wastewater? What irrigation procedures would assure that incidental run off does not occur? Would there be any creeks in close proximity? Would there be setbacks for irrigation to protect water quality? What if we have a cool, wet summer and the farmers don't need water? Would the vintners pay for the water? How much cost can be offset in this manner?

We wonder why there has been no focus on developing a conservation program to minimize summer water use. Has there been any analysis of who is using what water? In other words, have you (will you?) look at who are the heavy water users and attempt to target them for conservation programs? We think this would be a good idea in terms of winter use as well, especially during high river flows. Even though water use is low to begin with, it never hurts to implement conservation measures with heavy water users. Thus far, to our knowledge, there has been no effort to sensitize the community to the need for conservation and we believe that this should be part of the program.

Will this irrigation project interfere with the irrigation projects of Forestville and Graton? Are any of the potential irrigation sites in close proximity and/or being used by either of those two Districts? What impact would it have on their systems if this project were to interfere?

WATER QUALITY ISSUES

As alluded to earlier, even the perception of degraded water quality on premium grapes is a barrier to its use by many local vintners. SCWA has been planning the North County Irrigation Project for years, and it is our understanding that only some of the larger growers, desperate for additional water supplies, are willing to take the chance. It would be very relevant for SCWA to reveal your experiences in the Dry Creek and Alexander Valleys, famous for their premium vines. In this regard, it is interesting that the City of Santa Rosa got tired of waiting for SCWA to move forward on a North County Irrigation Project, and are now planning to use their wastewater in an urban irrigation project in Southwest Santa Rosa, now expeditiously moving forward.

More and more vintners are beginning to question the wisdom of watering their premium grapes with wastewater. Growing concerns about unregulated compounds such as pharmaceuticals, personal care products, steroids, caffeine, over the counter drugs, etc., and the possibility of their leaching into the groundwater, has been causing great concern. More and more people are asking about these conditions, as the literature and public awareness has increasingly ballooned in volume. The EIR should address these issues.

Is there boron in the wastewater? How much? How would this affect the crops? Similarly, how might the salts in wastewater affect the soils in the long term? How would this affect production of premium wines? ?

PROJECT COSTS

We wonder if SCWA is looking to all the North County treatment plants to provide the irrigation water that will allow the Agency to say that potable water supplies have been offset, thereby allowing justification for the increased potable withdrawals you will then sell to your urban contractors. If this is the case, then the SCWA, as water purveyors, should pay for this RRCSD irrigation project. Is there such a plan?

The pipeline component described in this NOP (Alternative 1) is very similar to Alternative 2 (Green Valley Alternative) in the 1998 EIR. (We're not sure if the pumps and other hardware are the same, but the pipeline has the same route.) That EIR was dismissed by District Directors for lack of an inadequate project description. The current situation is even more egregious. (see above)

In 1998 a similar system using much smaller pipes would have cost up to \$12 million. That's as much as the whole Monte Rio sewer is supposed to cost. What would this project cost in present day dollars? What would be the TOTAL costs of this project in conjunction with the recent TP expansion, disinfection project and equalization storage? Who would pay for it? How?

The *County of Sonoma Capital Project Plan for 2006-2011* projects only \$250,000 over the next five years for the irrigation project. Please detail anticipated costs for this project and explain why it does not appear in projections for the next five years. Does that mean it is not anticipated to be built in the next five years? At what point will you provide cost estimates for this huge and costly project?

We urge you to abandon this NOP and conduct a comprehensive EIR that addresses all these issues appropriately as called for in Ellison Folk's letter from the legal firm of Shute, Mihaly, and Weinburger. LLP.

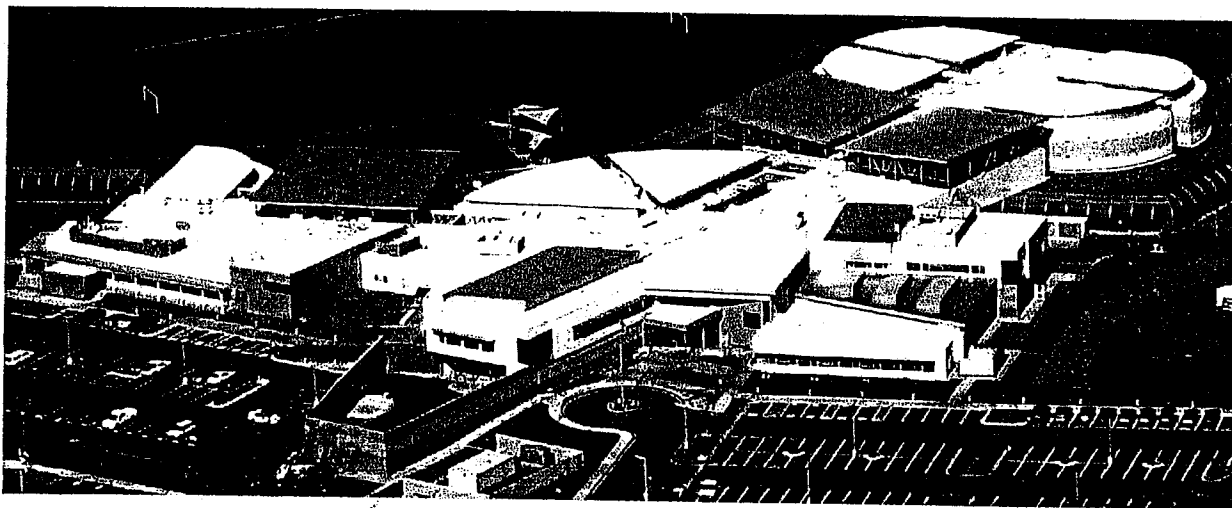
ATTACHMENTS:

- NOP: EQUALIZATION BASIN STORAGE PROJECT, SCWA, March 3, 2006
- RRWPC Letter re: Equalization Basin Storage Project, April 24, 2006
- CAMP MEEKER/OCCIDENTAL WASTEWATER RECLAMATION PROJECT, Camp Meeker Recreation and Park District, Sept. 15, 2006
- County of Sonoma, CAPITAL PROJECT PLAN 2006-2011, pages 8I-2-5, 8I-10-11
- Mike Reilly letter to Lee Michlin, EO of North Coast Regional Water Quality Control Board, April 24, 2000
- Ellison Folk, Shute, Mihaly, & Weinburger, LLP letter of October 5, 2006 (We incorporate this letter by reference, since we don't have the final version as of the time we are completing this packet.)

4/25 2006

County of Sonoma

CAPITAL PROJECT PLAN 2006 — 2011



*New Juvenile Justice Center
completed December 2005*



Based on the 1996 Report of Waste Discharge prepared for the Geyserville SZ, current and future treatment facility inflows are expected to remain less than the treatment and disposal capacity of the Geyserville SZ facilities. Accordingly, there are no expansions to the treatment and disposal facilities planned at this time. The project in this section of the plan meets Objective 4 in Section 7.0 (Wastewater and Recycled Water Services) in the Agency's Strategic Plan.

Occidental County Sanitation District

The Occidental County Sanitation District (Occidental CSD) treatment plant first became operational in 1950 and was upgraded in 1970 and 1975. The plant is designed to treat an average daily dry weather flow of up to 50,000 gallons per day to secondary treatment standards. Each year, between October 1 and May 14, treated wastewater from the Occidental CSD is discharged into Dutch Bill Creek. During the balance of the year, treated wastewater is used for irrigation.

The Occidental CSD is facing very serious financial and operational difficulties. The treatment plant is in a critical state of disrepair; however, operating revenue and the Occidental CSD's fund balance is inadequate to support required maintenance, repair, or facility improvements. Without near term improvement of the facilities and treatment processes, the Occidental CSD's ability to comply with the conditions of its operating permit remains in doubt.

During FY 97-98, the Occidental CSD was faced with a Civil Lawsuit under the Clean Water Act and an Administrative Civil Liability (Order No. 97-75) was officially adopted by the NCRWQCB in August of 1997 as a result of violations. Increased requirements for sampling and chemical usage, as well as substantial legal fees for multiple lawsuits, have impacted the Occidental CSD's operational expenses.

In addition to the requirements specified above, Cease and Desist Order 97-74 and Time Schedule Order 97-75 required Occidental CSD and Sonoma County Water Agency (SCWA) to address violations at the treatment facility. In response to the Regional Board's Orders, the District hired a local consulting firm in 1998 to perform the engineering and environmental studies necessary to upgrade the treatment facility. Two options were evaluated but later abandoned. Based on input from the Regional Board and from the Occidental community, it was determined that a project that addressed the sanitation needs of both Camp Meeker and Occidental represented the best alternative.

In October 2001, a Draft Environmental Impact Report (EIR) for the Camp Meeker/Occidental wastewater reclamation project was released and in February 2002 the Final EIR was issued. The preferred alternative includes the following elements:

- A collection system and influent pump station for Camp Meeker

- Reconstruction of the existing collection system in Occidental
- A joint influent pump station
- A tertiary treatment plant
- A new off-stream effluent reservoir
- Effluent polishing wetlands and irrigated woodlands
- Wintertime discharge to Dutch Bill Creek
- Summertime irrigation on pastures and farmlands

Cease and Desist Order No. R1-2003-0020 and Time Schedule Order R1-2003-0021 were issued in March 2003 and required completion of the project outlined in the EIR in four phases with specific deadlines. Phase I, selecting a governance structure for the new district and submitting a report of waste discharge, was completed by the December 31, 2003 deadline. Phase II included upgrading the existing wastewater treatment plant to tertiary standards and increase the capacity to handle flows from Occidental and Camp Meeker. Phase II was in the early stages of design when it was determined that the cost of upgrading the treatment plant would be too expensive for the community to afford. The District went back to the Regional Board seeking an extension to the deadlines in order to study further alternatives.

The Regional Board in Cease and Desist Order No. R1-2005-0085 and Time Schedule Order No. R1-2005-0086 extended the deadlines for completion of an interim project and a Capital Improvement Project (CIP) to solve OCSD's regulatory issues. The interim project (an upgrade to the collection system) must be completed by December 1, 2007. The CIP, a project to resolve issues at the treatment plant must be completed by June 30, 2010. There are several interim deadlines related to the completion of an environmental document.

Approximately \$7.1 million in project costs are identified in this capital plan for Occidental CSD over the next five years. The ability to increase rates in this district is limited, and funding for the above projects will be financed mostly through outside funding. The projects in this section of the plan meet Objectives 1, 2, 3, and 4 in Section 7.0 (Wastewater and Recycled Water Services) in the Agency's Strategic Plan.

Penngrove Sanitation Zone

Agency operations in the Penngrove Sanitation Zone (Penngrove SZ) are limited to administrative services and operation/maintenance of the collection system and pumping station. The wastewater collected by the Penngrove SZ collection system flows through the City of Petaluma's collection system to the City of Petaluma's wastewater treatment facility. Wastewater generated by the Penngrove SZ and Petaluma is treated to meet secondary standards at the City of Petaluma's treatment facility.

The City of Petaluma's Environmental Impact Report for the new water recycling facility has been certified and construction has begun. The new facility will include extended aeration, secondary clarifiers, oxidation ponds, tertiary filters, UV disinfection and treatment wetlands. Cost estimates for this project are currently at approximately \$90 million. The project is expected to cause a significant increase in the annual service charge over the next five years. These rate increases, when implemented, will be passed on to the Penngrove SZ customers.

Projected costs included in the capital plan for FY 06-07 through FY 10-11 are necessary to address improvement, expansion, and capital replacement requirements of the Penngrove SZ. The projected costs over the next five years are earmarked for: (1) the capital replacement program; and (2) removing and replacing an existing trunk main. The project in this section of the plan meets Objective 4 in Section 7.0 (Wastewater and Recycled Water Services) in the Agency's Strategic Plan.

Russian River County Sanitation District

The Russian River County Sanitation District (Russian River CSD) treatment plant was completed in September of 1980 and began operating in 1982. The Russian River CSD treatment plant is designed to treat an average dry weather flow (ADWF) of up to 0.71 million gallons per day (mgd) to advanced (tertiary) wastewater treatment standards.

The Russian River CSD has an easement of approximately 77 acres of forest area adjacent to the treatment plant (referred to as the Burch property). 17 acres of the easement are the best suited for irrigation purposes and are currently used for wastewater disposal through spray irrigation. In addition, approximately 43 acres of turf at the Northwood Golf Course is irrigated with tertiary treated wastewater. Expansion of the dry weather disposal area is desirable in order to ensure adequate disposal of inflow as dry weather inflow capacity increases.

The treatment plant has historically experienced operational problems associated with major flooding on the Russian River. Soon after SCWA assumed operations of the facility in 1996, engineering and environmental documentation was begun to address operational problems associated with Russian River flood events, the irrigation system, and obsolete equipment at the Russian River CSD treatment plant. Work on an environmental impact report (EIR) began in 1997 after a citizens advisory committee, consisting of residents within the Russian River CSD service area, was formed and began meeting with Russian River CSD staff.

The NCRWQCB adopted a series of enforcement orders against the Russian River CSD for violations associated with flood events. In response, the Russian River CSD began implementation of a series of short- and long-term projects aimed at bringing the facility into compliance. Short-term improvements included installation of backflow prevention

devises and shutoff valves in low-lying portions of the collection system, upgrading the lift station pumps, replacing aeration units, installing influent headworks screening, increasing chlorination capacity, and extensive public outreach. Unfortunately, after considerable resources were expended and obtaining community input on environmental work for the long-term solution, the Final EIR for the Disposal Expansion Project was set-aside in March of 1999 due to public concern regarding the lack of a precise project description.

In spring of 1999 the Russian River CSD Board directed staff to proceed with an environmental analysis for the construction of the third aeration basin, secondary clarifier, and tertiary filter at the treatment facility, also known as the Third Unit Processes Project, and identify additional items needed to address flood-related issues; and to proceed with environmental documentation for increased disinfection capacity and wet weather inflow treatment opportunities, which had been addressed in the 1999 EIR. Implementation of the Third Unit Processes Project was delayed due to a lawsuit on the project in June of 1999. In 2001, the Russian River CSD received a favorable ruling on the Third Unit Processes Project lawsuit. Construction of the Third Unit Process was completed in January 2005.

New Waste Discharge Requirements were adopted on November 5, 2003 by the NCRWQCB (Order No. R1-2003-0026). This order does not include the full upset and bypass provisions as stated in the Federal Regulations, apparently because the Regional Board did not consider the facility to be adequate to handle flood related inflow. In subsequent correspondence, the NCRWQCB agreed that upon completion of the Third Unit Processes Project, the facility would be adequate to handle foreseeable flows. The average dry weather flow capacity of the treatment and disposal facilities remains at 0.71 mgd in the new permit.

The capital plan for the FY 06-07 through FY 10-11 at the Russian River CSD includes the following: (1) planning and design of an equalization basin; (2) design and construction of an upgraded disinfection system; (3) electrical upgrades; and (4) disposal and irrigation of wastewater. Over \$12.8 million in project costs are identified in this capital plan for the Russian River CSD over the next five years. The projects in this section of the plan meet Objectives 1, 3 and 4 in Section 7.0 (Wastewater and Recycled Water Services) in the Agency's Strategic Plan.

Sea Ranch Sanitation Zone

The Sea Ranch Sanitation Zone (Sea Ranch SZ) consists of two wastewater collection and treatment systems located in Central and North Sea Ranch. The Central and North treatment facilities both provide treatment to secondary wastewater treatment standards. Their collection and disposal systems operate independently and are isolated from each other. The Central and North treatment facilities are designed to treat average daily dry weather flows of up to 27,000 and 160,000 gallons per day, respectively. Treated

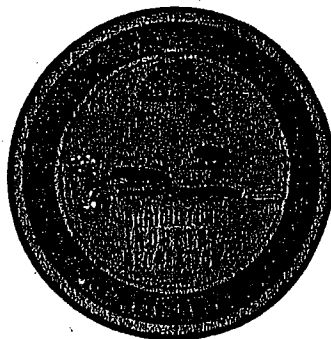
PROJECT TITLE	PROJECT DESCRIPTION	5-YEAR PLAN ESTIMATED TOTAL COST	PROJECTED COSTS				
			2006/07	2007/08	2008/09	2009/10	2010/11
GEYSERVILLE SANITATION ZONE FUND 681304							
Capital Replacement Program	Repair/replace collection system	150,000	30,000	30,000	30,000	30,000	30,000
TOTALS		150,000	30,000	30,000	30,000	30,000	30,000
GRATON SANITATION ZONE FUND 677310							
TOTALS		0	0	0	0	0	0
OCCIDENTAL COUNTY SANITATION DISTRICT FUND 651505							
Building/Improvements	Treatment Plant Upgrades	25,490,000	220,000	500,000	4,770,000	0	0
	Collection System Replacement	1,656,202	1,656,202	0	0	0	0
TOTALS		27,146,202	1,876,202	500,000	4,770,000	0	0
PENNGROVE SANITATION ZONE FUND 680306							
L pipe	Remove & replace existing trunk main	545,000	545,000	0	0	0	0
Pump Station Replacement		0	0	0	500,000	0	0
TOTALS		1,045,000	545,000	0	500,000	0	0

PROJECT TITLE	PROJECT DESCRIPTION	5 YEAR PLAN ESTIMATED TOTAL COST	PROJECTED COSTS				
			2006/07	2007/08	2008/09	2009/10	2010/11
RUSSIAN RIVER COUNTY SANITATION DISTRICT							
FUND 652305							
Capital Replacement Program	Collection System	1,000,000	200,000	200,000	200,000	200,000	200,000
Disinfection	Chlorine Contact Basin	1,153,000	1,050,000	103,000	0	0	0
Facilities Upgrade/Disposal	Disposal/ Irrigation	250,000	50,000	50,000	50,000	50,000	50,000
Emergency Generator		500,000	0	500,000	0	0	0
Irrigation Expansion		6,035,000	250,000	640,000	5,135,000	0	0
Equalization Basin	Planning/Environmental/Design	3,865,000	415,000	3,450,000	0	0	0
TOTALS		12,793,000	1,965,000	4,943,000	5,385,000	250,000	250,000
SEA RANCH SANITATION ZONE							
FUND 678300							
Capital Replacement Program	Repair/replace collection system	200,000	40,000	40,000	40,000	40,000	40,000
Treatment Consolidation		587,483	407,483	2,900,000	280,000	0	0
TOTALS		787,483	447,483	2,940,000	320,000	40,000	40,000

COUNTY OF SONOMA
BOARD OF SUPERVISORS
575 ADMINISTRATION DRIVE, RM. 100A
SANTA ROSA, CALIFORNIA 95403

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EEVE T. LEWIS
COUNTY CLERK



MIKE REILLY
SUPERVISOR FIFTH DISTRICT

mreilly@sonoma-county.org
FAX: (707) 565-3392

AIDES
CAROL MILLS
HEIDI GILLEN

R W Q C B
REGION 1

APR 26 2000

April 24, 2000

Mr. Lee Michlin, Executive Officer
North Coast Regional Water Quality Control Board
5550 Skylane Blvd., Suite A
Santa Rosa, CA 95403

☐ LAM ☐ CRJ ☐ FCR
☒ RLT ☐ SAW ☐ KAD
☐ LMF ☐ ☐
File: Occidental CSD

Subject: Occidental County Sanitation District

Dear Mr. Michlin:

I am writing in response to our recent conversations and your letter of March 31, 2000 to me regarding the Occidental Sanitation District. First, however, I would like to provide you with a brief update on our progress in resolving outstanding issues with the Occidental facility:

- On February 15, 2000, the Board of Supervisors certified the final EIR for projects to bring the Occidental Sanitation District into compliance and instructed Water Agency staff to evaluate options and return to the Board with a recommendation to select a project.
 - On February 11, 2000, the Sonoma County Water Agency released results of manhole inspections and smoke tests conducted on the Occidental system. Several defects contributing to inflow and infiltration were detected including the finding that the rain gutters of the elementary school were connected directly to the sewer. Correction of these defects could contribute significantly to reduction of I&I and serve to reduce the peak inflows that a new or upgraded sanitation system would have to be designed to serve.
 - On April 4, 2000, the Board of Directors of the Occidental Community Services District unanimously agreed to undertake negotiations with the Water Agency and County to assume control of a new community wastewater system.
-
- On April 18, 2000, the Board of Supervisors established the new sanitation rate of the Occidental Sanitation District at \$814 per ESD, making it, along with Mirabel Heights, among the most expensive sanitation systems in California. Even with this rate increase, the district debts including studies, fines, legal costs and operations far exceed its revenues.
 - We are currently completing a ratepayer income survey in the OSD in accordance with USDA standards to determine the eligibility of the OSD for both federal and state grant assistance. A preliminary survey indicated that it is likely that some grant eligibility may be established.

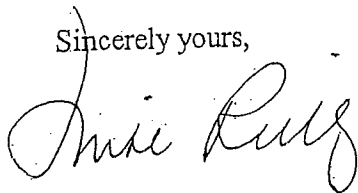
Mr. Lee Michlin
April 24, 2000
Page Three

The second and closely related problem is meeting the timelines for correction contained in Regional Board enforcement actions. Each missed deadline results in additional fines to the district and further exacerbates an almost impossible financial situation. Finding a way to extend these deadlines is an essential component of any permanent solution.

The County, District and community are genuinely committed to resolving the problems of the Occidental Sanitation system and have made significant strides toward that end. We are now faced with critical questions as to the best way to proceed. I believe that this can only happen with the full cooperation and involvement of Regional Board staff. While acknowledging your ongoing regulatory responsibilities, I would call on you to lend your staff expertise as well in working with us to resolve these difficult issues.

I would request a joint meeting at your earliest convenience to initiate this process. I look forward to hearing from you.

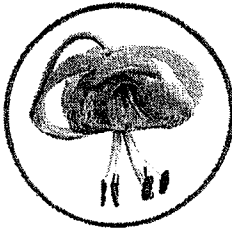
Sincerely yours,



MIKE REILLY
Fifth District Supervisor

MR:mb:10091

cc: Board of Supervisors
County Administrator
Sonoma County Water Agency
Occidental Community Services District
Camp Meeker Park & Recreation District
Environmental Health Division, PRMD



California Native Plant Society
Milo Baker Chapter

Via email

Date: October 5, 2006
To: Jeff Church
From: John Herrick
Subject: Notice of Preparation, Irrigation and Beneficial Reuse Project, Russian River County Sanitation District

On behalf of the Milo Baker Chapter of the California Native Plant Society, thank you for the opportunity to comment on the scope and content of the Russian River County Sanitation District Irrigation and Beneficial Reuse Project EIR. We have three areas of concern regarding the project;

Impact on special-status plant species and natural communities,
Loss of woodland and forest communities due to agricultural conversion,
Spread of Sudden Oak Death pathogen

Impact on Special-status Plant Species

We request that botanic surveys be conducted in accordance with the CA Department of Fish and Game *Guidelines for Assessing the Effects of Proposed Projects on Rare, Threatened and Endangered Plants and Natural Communities*, including potential irrigation subscriber parcels, where appropriate habitat is present, as well as the pipeline routes and associated project components. *California Native Species Field Survey Forms* should be completed and submitted to the California Natural Diversity Data Base as described in the *Guidelines*.

Loss of Woodland and Forest Communities to Agricultural Conversion

The EIR should address the potential for the loss of woodland and forest communities due to agricultural conversion encouraged by the increased availability of irrigation water.

Sudden Oak Death

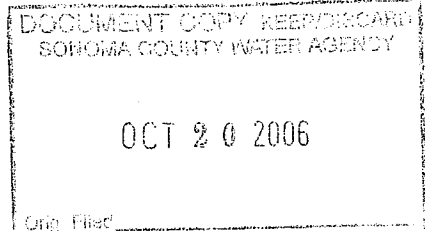
The EIR should address the possibility that the proposed project will spread the Sudden Oak pathogen, *Phytophthora ramorum*, through excavation, vegetation removal, materials and equipment staging and other associated project activities. In addition, the EIR should address how prolonged seasonal soil moisture, resulting from project-sponsored irrigation, may support the Sudden Oak Death pathogen.

We recommend that the other wastewater projects identified on page 2 of the NOP be included in this EIR. The wastewater disposal issue is regional in scope. Combining the projects into a single EIR will make it possible to better identify issues, perhaps reveal environmentally superior alternatives and make public review more efficient.

Please send future notices regarding the EIR to me at the address provided below. Thank you for considering our comments.

John Herrick
Conservation Committee Co-chair
Milo Baker Chapter
California Native Plant Society
PO Box 892
Santa Rosa, CA 95402
887-8542
johherri@yahoo.com

SHUTE, MIHALY & WEINBERGER LLP
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PROJ/RUSSIAN RIVER CSD IRRIGATION EXPANSION
(Agree. For Environmental Compliance Services)
70-13-7 #___ TW# 05/06-96

ANDREA RUIZ-ESQUIDE
SHERIDAN J. PAUKER
ELENA K. SAXONHOUSE

LAUREL L. IMPETT, AICP
CARMEN J. BORG, AICP
URBAN PLANNERS

DAVID NAWI
ANDREW W. SCHWARTZ
OF COUNSEL

October 5, 2006

Russian River County Sanitation District
c/o Sonoma County Water Agency
Attn: Jeff Church
PO Box 11628
Santa Rosa, CA 95406-1628

Dear Mr. Church:

This letter is submitted on behalf of the Russian River Watershed Protection Committee ("the Committee") and comments on the Notice of Preparation ("NOP") of a environmental impact report ("EIR") on the Irrigation Reliability and Beneficial Reuse Project ("irrigation project") and the expansion of the Russian River County Sanitation District ("RRCSD"). As detailed below, the Committee is concerned that the current NOP does not call for a complete evaluation of the environmental impacts of or alternatives to this new irrigation project.

In particular, the Committee is concerned about the improper segmentation of the irrigation project from other closely related activities that will expand the capacity of the Russian River Wastewater Treatment Plant ("WWTP"). As detailed below, the EIR cannot adequately evaluate the proposed irrigation project and the other water treatment projects currently planned for western Sonoma County unless the EIR is based on a complete and accurate project description that properly defines and analyzes the proposed project. Therefore, we strongly urge the RRCSD and Sonoma County Water Agency (collectively, "the Agencies") to withdraw the current NOP, and those for other closely related projects, and to prepare an EIR that provides a comprehensive analysis of the proposed modifications to Russian River County Sanitation District to accommodate expanded treatment for Guerneville, Occidental, and Camp Meeker as a single project.

I. The Three NOPs Issued in the Past Year Demonstrate that The Agencies are Improperly Segmenting Its Environmental Review of the Proposed Project.

During the past year, three NOPs for modifications and expansions of the existing wastewater treatment capacity in the Russian River/Guerneville area have been issued. These include the current irrigation proposal, the equalization basin storage project, and the Camp Meeker/Occidental Wastewater Reclamation Project. In addition, the Agencies will also need to upgrade its disinfection system and has a number of other capital improvements planned for the RRCSD – all of which have the potential to expand the wastewater treatment capacity of the system.

Together these projects will have a profound impact on wastewater treatment in the Russian River/Guerneville area. For example, the proposed irrigation project will increase the ability of the existing RRCSD system to accept and treat wastewater. See Irrigation NOP at p. 3. Indeed, such increased capacity would be one of the key components necessary to support the connection of Occidental/Camp Meeker to the RRCSD. Id. Finally, the equalization basin storage system is designed to increase the reliability of the treatment system during the winter months. In addition to supporting the potential connection of Camp Meeker/Occidental, the proposed improvements could support other annexations to the RRCSD. For example, in 1998 the SCWA released a map of the Guerneville area indicating that at least 750 parcels (half of which are undeveloped) could be annexed to the RRCSD. Furthermore, should the new Monte Rio wastewater treatment and disposal project not be funded and built, it is likely that they will consider hooking up to RRCSD as well. The potential for these parcels and the Monte Rio area to be served by the improvements now under consideration by the Agencies should also be evaluated as part of the larger program to expand the RRCSD.

CEQA provides that an agency must evaluate the “*whole* of an action, which has a potential for resulting in a physical change in the environment. CEQA Guidelines § 15378(a) (emphasis added). Thus, where one approval implicates several other related actions that will have a significant impact on the environment, the agency must treat the actions as a single project and evaluate them in the same EIR. Bozung v. Local Agency Formation Comm’n (1975) 13 Cal.3d 263, 283-84 (CEQA mandates that “environmental considerations do not become submerged by chopping a large project into many little ones”); San Joaquin Raptor/Wildlife Rescue Ctr v. County of Stanislaus (1994) 27 Cal.App.4th 713, 729-35 (CEQA prohibits omission of project elements from environmental analysis); Orinda Assoc. v. Bd. of Supervisors (1986) 182 Cal.App.3d 1145, 1171-72 (“A public agency is not permitted to subdivide a single project into smaller individual subprojects in order to avoid the responsibility of considering the environmental impacts of the project as a whole.”); Arviv Enter., Inc. v. South Valley Area Planning Comm’n (2002) 101 Cal.App.4th 1333, 1336 (EIR necessary to avoid segmenting review of five already built houses from sixteen other houses later proposed by the same party); Bakersfield Citizens for Local Control v. City of Bakersfield (2004) 124 Cal.App.4th 1184,

Jeff Church
October 5, 2006
Page 3

1203-04 (environmental study of partially completed project required in part because it could compel additional mitigation and project modifications);

A complete project description is an essential prerequisite to an adequate EIR: "Only through an accurate view of the project may affected outsiders and public decision-makers balance the proposal's benefit against its environmental cost, consider mitigation measures, assess the advantage of terminating the proposal . . . and weigh other alternatives in the balance." County of Inyo, 71 Cal. App. 3d at 192-93; see also Id. at 199 ("[A]n accurate, stable and finite project description is the *sine qua non* of an informative and legally sufficient EIR."); San Joaquin Raptor/Wildlife Rescue Center v. County of Stanislaus, 27 Cal. App. 4th at 730 ("An accurate project description is necessary for an intelligent evaluation of the potential environmental effects of a proposed activity." (citation omitted)).

Clearly, all three of these projects, in addition to the imminent disinfection project and other capital improvement projects planned by the Agencies, are part of a coordinated program to increase the capacity and reliability of the WWTP and to expand its service area. In fact, without the modifications proposed by the irrigation project or the equalization basin, it would not be possible to add Camp Meeker/Occidental to the WWTP system. Furthermore, because the RRCSD will be required to approve any connection by Camp Meeker/Occidental to the WWTP, we believe that the RRCSD and SCWA should act as the lead agencies on that project as well as the other activities currently planned for expansion of the wastewater treatment system. CEQA Guidelines §15051 (a) ("if the project will be carried out by a public agency, that agency shall be the lead agency.") This is particularly important, here, where the Board of Supervisors sits as the Board of the SCWA, the RRCSD and the Occidental County Services District – the co-sponsor of Camp Meeker/Occidental project. Clearly, the same decision-makers will be acting on all of proposals for modification and/or expansion of the wastewater treatment capacity in the Russian River area.

As such, the Agencies must evaluate these proposed activities as a single project. This evaluation should look at the impacts of regionalizing the wastewater treatment system in the Guerneville/Occidental/Camp Meeker area and should evaluate a full range of alternatives to such a program. Until such a comprehensive analysis is prepared, the EIR cannot be adequate under the standards of CEQA.

II. The EIR Must Evaluate a Reasonable Range of Project Alternatives.

CEQA requires an EIR to evaluate a reasonable range of alternatives, including alternatives that will avoid or substantially reduce the adverse impacts of a proposed project. Pub. Res. Code §§21001, 21002. A full evaluation of alternatives will further the goals of CEQA to ensure protection of the environment:

The CEQA reporting process is not designed to freeze the ultimate proposal in the precise mold of the initial project; indeed, new and unforeseen insights may emerge during investigation, evoking revision of the original proposal The lead agency may determine an environmentally superior alternative is more desirable or [that] mitigation measures must be adopted. Environmentally superior alternatives must be examined whether or not they would impede to some degree the attainment of project objectives.

Kings County Farm Bureau v. City of Hanford (1990) Cal.App.3d 692, 735-737.

As discussed above, the EIR cannot fulfill its obligation to analyze a comprehensive range of project alternatives unless it is based on an adequate project description. This analysis should include an assessment of small-scale and land-based alternatives that will not increase system capacity, but will address the specific problems that have plagued the WWTP and the Camp Meeker/Occidental area for years. In addition, the Agency should evaluate alternative methods of providing additional irrigation capacity in and around Guerneville, such as irrigation of redwoods, which use far more irrigation water than the vineyards being considered and which do not involve the major infrastructure improvements required by the current proposal.

III. The EIR Must Adequately Evaluate All of the Potential Impacts Associated With this Project.

The NOP recites in general terms the areas of environmental impact that will be reviewed in the EIR. The Committee requests that the EIR provide a detailed analysis of all of the potentially significant environmental impacts of the proposed irrigation project as well as the other proposed expansions of the wastewater treatment system. In order for the EIR to serve its purpose as an informational document, it is essential that the EIR not understate the severity or extent of the impacts associated with the proposed project. Again, as detailed above, this analysis cannot be conducted without a complete and adequate project description.

In addition to the impact areas identified in the NOP, the EIR must evaluate the growth inducing impacts of the irrigation project, as well as the other activities planned by the Agency. CEQA Guidelines §15126.2 (d). One of the primary impacts of increasing the capacity and reliability of a wastewater treatment system is its potential to spur further development. Such potential impacts include pressure for conversion of agricultural lands, increased development and its attendant impacts on traffic, infrastructure and natural resources. This impact must be evaluated in the EIR.

Other impacts that should be evaluated in the EIR include:

Jeff Church
October 5, 2006
Page 5

- water quality impacts on the Russian River during major floods over 42 feet when illegal discharges are still likely to occur,
- how the Agencies plan to meet all NPDES Permit requirements during all floods up to approximately 50 feet and those floods that may occur over that amount as global warming begins to effect sea levels and causes even more severe floods;
- impacts resulting from the construction of more pipelines through slide prone areas and the impacts associated with running raw sewage through those pipes during major flood events;
- the increased potential for floods and landslides and the potential for increased discharge of more wastes containing unregulated compounds being exacerbated by expanding the system;
- the potential inability of the system to meet California Toxic Rule (CTR) requirements on disinfection by products; and
- the impacts of this project and any new development that it might facilitate on greenhouse gas emissions. Such an analysis should include comparative energy use and greenhouse gas emissions from all alternatives, including construction, operations and maintenance of the system and components over its lifespan.

In addition, pursuant to CEQA Guidelines section 15130(a), the EIR must discuss all significant cumulative impacts, including impacts of mitigation efforts. Cumulative impacts are the changes in the environment from the incremental impact of the project when added to other closely related past, present, and reasonably foreseeable probable future projects. (CEQA Guidelines § 15355(b).) Future projects need not be certain to occur to be considered in the cumulative impacts analysis; the key is that they appear foreseeable at the time of EIR preparation. City of Antioch v. City Council (1986) 187 Cal.App.3d 1325, 1337.

The Agency must use reasonable efforts to discover, disclose, and discuss past, present and future projects including those under review by other agencies. (Discussion following CEQA Guidelines § 15130.) As one court put it:

[T]he full environmental impacts of a . . . proposed action cannot be gauged in a vacuum . . . [or treated] as an isolated "single shot" venture . . . in the face of persuasive evidence that it is but one of several [environmental threats]. To ignore the prospective

Jeff Church
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Page 6

cumulative harm under such circumstances could be to risk
ecological disaster.

Whitman v. Board of Supervisors (1979) 88 Cal.App.3d 397, 408.

We appreciate the opportunity to comment on the NOP. Inasmuch as the NOP contains only general information as to the Agency's approach to evaluating the project's potential environmental impacts, the issues identified in this letter are not intended to be exhaustive. The Committee reserves its right to raise other issues during the environmental review process. Please send this firm a copy of the Draft EIR once it becomes available.

Very truly yours,

SHUTE, MIHALY & WEINBERGER LLP



ELLISON FOLK

cc: Russian River Watershed Protection Committee

October 6, 2006

Jeff Church
Sonoma County Water Agency

Stewart & Associates have plans and patents and patents pending for just your project at hand..

We propose to avert all dumping of wastewater in the Russian River by the use of the Geysers geothermal vast expanse. We propose to bring back 75% of the water volume as H2O Distilled, to be put back in the river, for irrigation of the Human Body, plants, and animals (as we do now).

Mr. Leonard Stewart spearheaded the use of the Geysers in the Santa Rosa wastewater project.

Mr. Leonard Stewart 544-2008, Santa Rosa

Mr. Dale Wright 544-9797, Santa Rosa
894-3826, Cloverdale
540-2798, Cell

*No
address*

-----Original Message-----

From: WWW User [mailto:www@sonic.net]
Sent: Friday, October 06, 2006 12:09 AM
To: Brad Sherwood
Subject: Contact Us Form Submission

The following was sent via the Contact Us form on the Sonoma County Water Agency web site:

=====

Name: Bob Rawson

Phone Number: (707) 887-1811

E-mail Address: iws@sonic.net

My question/comment is regarding: Construction Projects

Question/Comment:
October 5, 2006

Russian River County Sanitation District
C/O Sonoma County Water Agency
Attention Jeff Church, Senior Environmental Specialist
P.O. Box 11628
Santa Rosa Ca. 95406-1628

Dear Mr. Church,

We wish to thank Mr. Cordel Stillman for providing the Graton Community Services District (GCSD) Board of Directors with a presentation on Monday October 1st. Mr. Stillman responded to our request for a briefing on very short notice, and he answered our questions pertaining to a Notice of Preparation (NOP) Environmental Impact Report, titled "Irrigation Reliability and Beneficial Reuse Project\". The following comments relate to that project. These comments are being submitted electronically to comply with the time constraints of the CEQA process. A hard copy will be mailed to you.

GCSD sympathizes with the efforts being undertaken by RRCSD, and Sonoma County Water Agency (SCWA), intended to meet their NPDES requirements and to identify beneficial reuse opportunities. While we support the reuse of Title 22 recycled water as an objective, our Board of Directors wishes to express serious concerns about the site locations that are being identified in the pipeline routes depicted in Figure No. 2 of the NOP dated August 18, 2006.

The GCSD Board of Directors, and staff are on record as unanimously opposing all portions of the proposed pipeline routes that extend along Green Valley Road, and all portions of Alternative Pipeline Route No 2 that extend East of Mirabel Park. The spur of pipeline routes indicated on Figure 2 that share the same alignment along Vine Hill Road are a serious concern because they may adversely impact irrigation opportunities for GCSD. For this reason GCSD wishes to register its strong opposition to these components of the proposed project. The GCSD Board of Directors opposes the location of any large

storage pond or storage tank in a location that would be in proximity to Graton and be able to deliver water into the irrigation lands surrounding Graton. Graton opposes all project components constituting the pipeline alignments that encroach upon the irrigation areas that should be reserved for the future needs of the towns of Forestville and Graton. Graton specifically opposes any pipeline or irrigation project or sub-component of a project in the vicinity of Green Valley Road, Sullivan Road, or Vine Hill Road. These areas clearly overlap the areas where Graton, or its neighbor Forestville, may need to expand their irrigation systems in the future.

The GCSD did not receive timely notice of RRCSD's Notice of Preparation (NOP) and relied upon a third party who brought this project and NOP to our Board's attention. Since this project clearly impacts the community of Graton, the GCSD should have been provided with notification and consulted in advance of this proposal. The maps provided to the GCSD on 10-1-06 by Mr. Stillman were not of sufficient detail to clearly depict the complete pipeline alignment or provide an idea of where the storage tanks will actually be located. The cross hatched area identified on the map in Figure No. 2 as "storage Location" is larger than the town of Forestville and not rendered to any appropriate scale.

It would be prudent for the RRCSD to avoid unnecessary costs to the rate payers of both respective districts by abandoning further consideration of those pipeline alignment routes that infringe upon Graton and Forestville irrigation potential.

The pipeline alignments and storage locations identified around Graton and Forestville are likely to result in unnecessary conflict, litigation and expense for both GCSD and RRCSD if they are constructed as presented in the NOP.

Alternative Route No. 1 is infeasible and expensive.

The most useful areas identified in Pipe Line Alternative Route No. 1 clearly represent an encroachment into the irrigation zones, sphere of influence and future expansion areas anticipated by Graton and its neighbor Forestville. An intrusion into this irrigation zone threatens to seriously interfere with a 3 million dollar capital Improvements project, (CIP) and projects related to a proposition 50 grant, that Graton is currently planning to undertake. Graton is relying upon irrigation in its CIP to meet present and future NPDES requirements. Failure to meet NPDES requirements would represent an economic threat to the Town of Graton. Graton is planning on selling its Title 22 reclaimed effluent to local agricultural users. The importation of RRCSD water into the Graton area reduces the market and value of water that Graton intends to make available to those users.

Other municipalities including Airport and Windsor have experienced similar conflicts as a result of overlapping their irrigation and disposal zones without consultation or consideration of the impacts on adjacent communities. Overlapping services, and redundant, publicly funded infrastructure represent poor regional planning, which is costly and burdensome to rate payers in the respective districts.

GCSD requests assurance from the Russian River County Sanitation

District (RRCS D) that it will not infringe upon the irrigation opportunities within the GCSD sphere of influence, and will consult with GCSD before planning to situate any of these proposed irrigation facilities. Absent those assurances, GCSD gives notice of its intention to file a formal protest to LAFCO, and its intention to investigate all available legal options necessary to protect its legitimate interests in the watershed.

If the RRCS D wishes to continue to investigate irrigation pipeline routes in the Atascadero Green Valley Creek drainage area, it must agree to study the impact of putting additional water in the Atascadero Green Valley Creek Watershed and transferring water out of other watersheds. This investigation of watershed impacts should require at a minimum, the completion of a Groundwater Management Plan for Green Valley Creek, and Atascadero Creek, such as would be required by the State of California as a requirement for receiving State, Proposition 50 funds for reuse and recharge projects.

RRCS D must also study the economic impacts upon Graton imposed by the intrusion of this pipeline project into their irrigation areas.

The pipeline alternatives contained in this NOP were proposed as a Regional Pipeline Project in 1996. At that time, public hearings were conducted throughout the West County, in the towns of Forestville, Guerneville, Santa Rosa, Graton, Sebastopol, and Occidental. An administrative record was created during the course of those numerous hearings, 5th District Supervisors election debates, and public meetings. GCSD wishes to have that entire set of administrative records, including all oral and written comments, incorporated into this Environmental Impact Report process by reference, and have those concerns addressed by any EIR that precedes this New Regional Pipeline Project. To avoid piecemeal overlays the previous 50 years of pipeline routes connecting Santa Rosa to this part of West Sonoma County exist as records at the Sonoma State Library, These records must be disclosed in this environmental review process as possible future impacts. The inadequacy of the 1996 Regional Pipeline EIR and the record that was generated during that process must be considered and responded to by this EIR. The legal implications of Brown Act Violations that took place during that Pipeline EIR process must be taken into consideration in the evaluation of this resurrected Regional Pipeline Project.

Alternative No. 1 represents an unnecessary expense to the rate payers of the Russian River County Sanitation District. Alternative route No. 1 encounters geological and physical constraints that make its construction and operation infeasible, and cost prohibitive to construct. Because of this fact it is economically irresponsible to continue studying that route. Alternative route No. 1 involves traversing unstable slopes that are prone to frequent land slides. The energy required to pump water from Guerneville into the area designated as Alternative Pipeline Route No. 1 at considerable elevation, make this alternative increasingly expensive and unsustainable as energy prices increase. The impacts of energy and green house gasses associated with energy production must be considered if this route is selected.

Alternative Route No. 1 may disrupt sensitive rural environments that are inhabited by endangered species.

This Project will export water including known and unknown constituents contained in that water, from the Russian River Watershed into the Atascadero, and Green Valley Creek Watershed. In order to evaluate the impacts of this transfer of water and its various constituents, on surface and ground water resources, a groundwater management plan must accompany this EIR process.

Because of the potential for impacting irrigation opportunities in Graton and Forestville, the GCSD Staff suggests that the RRCSD and its Engineers, consider modifying this environmental document to reduce both the cost to RRCSD rate payers and resolve the strong opposition so that we can resolve Guerneville's disposal needs and take advantage of reuse opportunities that are closer to their point of origin.

West County Residents have expressed extreme displeasure with any regional pipeline route that connects Guerneville with the Sonoma County Airport, Windsor, Forestville, Graton or Santa Rosa irrigation systems or incrementally facilitates such a connection in the future. Many residents have likewise expressed strong opposition to a pipeline connecting occidental and Camp Meeker to the RRCSD collection system and thereby increasing Guerneville's effluent disposal problem. This concerns Graton because of proposals to dispose of this additional effluent in our back yard. One concern that has been expressed is the notion that a pipeline, or a route for a pipeline, allows for the possibility of water being transferred both to and from RRCSD in two directions. For example from and to Airport. This concern represents a potential present or future impact that would be created of any pipe alignment. The impacts of all such future pipeline alignments must be studied. Such a two directional pipeline would allow water to be sent to and from RRCSD Guerneville facilities, to and from other parts of the county including the town of Windsor, Airport, or Santa Rosa. Such transfers might occur in the winter season and result in increased river discharges in the vicinity of Guerneville. The existence of a pipeline route creates a potential right of way that can be sold or disposed of to other entities for other purposes including river or ocean outfall disposal. It is known that the City of Santa Rosa is looking for alternative discharge locations such as this project or its related studies might create. Clearing environmental obstacles to such a Right of Way or pipeline alignments could lead to having that alignment used for unstated discharge purposes at some time in the future. This proposed Environmental Impact Report must disclose and study the impacts of those potential future uses of the pipeline for any routes studied in the proposal.

Considering the marginal need to increase the summer disposal capacity of the RRCSD, it is apparent that there are adequate disposal sites much closer to Guerneville than those presented in figure 2. More than a sufficient capacity exists to beneficially use all of Guerneville's effluent within the vicinity of Armstrong Road, Korbel, and the vineyards, and timber lands located on Martinelli Rd. along Alternate Pipeline Route No. 2. RRCSD rate payers should not be expected to pay for studies beyond the RRCSD's reasonable future needs.

Extensions of the pipeline into the areas identified along West Side

Road appear to infringe upon the irrigation expansion areas of other municipal entities that have legitimate effluent disposal needs of their own.

Please contact me if you would like to discuss any details surrounding the concerns that have been expressed, or suggestions for resolving these concerns.

Sincerely,

Bob Rawson,
General Manager
Graton Community Services District

CC:
Sonoma County Board of Supervisors
NCRWQCB
FCSD
LAFCO
Jerry Burnhaut, Esq.
Kimberly Burr, Esq.
Lescure Engineers

DOCUMENT COPY KEEP/DISCARD SONOMA COUNTY WATER AGENCY
SEP 08 2006
PROJ/ RUSSIAN RIVER CSD IRRIGATION EXPANSION (Agree. For Environmental Compliance Services) 70-13-7 # TW# 05/06-96
Orig. Filed

~~Date: Fri, 25 May 2006 10:18:45 -0700~~
~~From: Johanna Lynch <jlynch@sonomacounty.net>~~
~~To: murray@esohr.net~~
~~Subject: Re: Gville EIR Scoping Session comments~~

~~Wells Gene. Really good information. It's long and should be
 re into this issue running late. If not, for your money, make
 much for your research. Johanna Lynch~~
~~Aug 24, 2006, at 7:05 PM, murray@esohr.net wrote:~~

- > Comments of Gene Koch
- > regarding Russian River County Sanitation Dist NOP proposed Irrigation
- > Reliability and Beneficial Reuse Project
- >
- > Aug. 22, 2006
- >
- > This project may not be necessary for Occidental and Camp Meeker
- > wastewater since the original wastewater study for Camp Meeker
- > failed to
- > identify the source of any pollution reaching Dutch Bill Creek and the
- > Russian River. The adequacy of the Final Report Wastewater Pollution
- > Study for the Community of Camp Meeker, Sonoma County, prepared for
- > the
- > County of Sonoma Public Health Department, project #88133, by Questa
- > Engineering Corporation of Point Richmond, CA in November 1989 is
- > suspect since the source of fecal contamination is assumed to be human
- > source as opposed to animal sourced (page 5-8) while the data from
- > said
- > report are assumptions (as from the reports own language, i.e.
- > "...readings can be taken as a probable indication..." from page
- > 5-4, for
- > example) and contradictory. For example, the swimming beach in Camp
- > Meeker for years tested low for coliforms, yet Sonoma County and the
- > North Coast Regional Water Quality Control Board now de-list the water
- > testing results for the swimming beach and have refused permission to
- > allow the summer dam to be re-installed from May to September,
- > ostensibly
- > in order to 'protect salmon'. More likely this is in order to keep
- > embarrassing data that would contradict the wastewater report from
- > being
- > disclosed.
- >
- > Also, wells shut down by the PUC are misrepresented in the Questa
- > report
- > as having been "some local spring sources have had to be abandoned by
- > order of the State Health Department as a result of septic
- > contamination"
- > (see page 1-1). This is debatable.
- >
- > Testimony by CA State Public Utilities Commission Dept. of Ratepayer
- > Advocates Martin R. Bragen Dec. 18, 1987, in Limited Rehearing on
- > Water-Related Land Issues Application 83-11-054, shows us a map
- > (Map A in
- > the report) of the Camp Meeker Water System with its 'used and useful'
- > spring sources and the only ones listed were "abandoned" in Dutch Bill
- > Creek itself, not near any septic tanks, or far away from homes and
- > abandoned due to drying up. To my recollection, the Dutch Bill
- > well in
- > the creek itself, the 'Haunted House' wells and the Acreage Lane wells

> were abandoned but mainly due to poor water production, not septic
 > inflows. Besides, just look at that map and you can see that only the
 > Acreage wells were anywhere near the nearest homesite !
 >
 > Water sampling at 16 stations in Camp Meeker from the Questa study
 > never
 > identified conclusively the source, human or animal, of any
 > bacteriologic
 > contamination. Again, the swimming beach data showed it was safe
 > to swim
 > in, yet shut down anyway.
 >
 > Sampling data was taken during the rainiest season (Jan. 1989, Feb.
 > 1989,
 > Mar. 1989, and a final sample in June 1989).
 >
 > Furthermore, CA Water Code Section 13360(a)(1)(2) prohibits the
 > SCWA or
 > NCRWQCB from specifying a particular "solution" to a community's
 > wastewater problems. This appears to be the case with Camp Meeker,
 > following directives from the Board of Supervisors of Sonoma County and
 > SCWA, to prevent the original Occidental DEIR of July 1999 from going
 > forward with a land-based discharge onto the Aho property-- which
 > would
 > have precluded any discharge to the Russian River or pipelines to
 > Santa
 > Rosa's or SCWA's incremental irrigation systems, which themselves
 > required new EIRs.
 >
 > The new AB 885 law (AB885-1999-Jackson), which allows for onsite
 > wastewater treatment would also have precluded adding Camp Meeker or
 > Occidental to this Russian River project, along with Monte Rio,
 > which is
 > another potential "add on" to this project should the wheels fall
 > completely of that community's project in Sheridan Meadows. The
 > preamble
 > to the Clean Water Act's Basin Plan for the NCRWQCB is supposed to
 > allow
 > for "change" and that includes new technologies and cost saving
 > measures.
 > Apparently sand-bagging AB885's efforts is a part of the waterboard's
 > behind the scenes efforts in tandem with SCWA. What efforts to
 > implement
 > AB885 in connection with this project and Camp Meeker/Occidental's
 > projects have Sonoma County's Board of Supervisors/Directors of
 > SCWA/RRCS made ?
 >
 > Finally, salmon and chlorine from drinking water do not mix.
 >
 > A Press Democrat article "Water Agency to make up for fish kill"
 > published Dec. 13, 2003 page B1 by Mike McCoy, shows us that an
 > accidental discharge of SCWA drinking water, treated with chlorine,
 > was
 > enough to kill steelhead in Santa Rosa Creek. A maximum of 0.03 mg/l
 > chlorine can kill Atlantic salmon
 >
 > <http://aquatron.dal.ca/pages/Salmon.html>
 >
 >
 > What chlorination/dechlorination amounts does SCWA, and any other water

> system along the Russian River and Dutch Bill Creek use if any ? Camp
 > Meeker water system's latest report 2005 Consumer Confidence Report
 > Table
 > 5 says chlorine is at 7.6 mg/l and that the Maximum Contaminant Level
 > (MCL) is 500. Maybe the California Toxic Rule, which allows loophole
 > exceptions for mercury, selenium, and chloroforms (chlorinated
 > drinking
 > water), needs to have these exceptions changed in order to really
 > protect
 > salmon ? Leachate from abandoned mercury mines along the Russian
 > River
 > (see MetroActive News archives "Mercury Rising" article), should be
 > looked into also if irrigating wastewater along the Russian River
 > is to
 > be expanded.
 >
 > The Sonoma County Water Agency, Camp Meeker Water System/Camp Meeker
 > Recreation and Park District, along with Sweetwater Springs water
 > system
 > should be able to provide updated data to this EIR scoping session
 > with
 > that data on chlorine etc.
 >
 > It would also be useful to know who the SCWA funds with its Salmon
 > Restoration monies, which are ususally monies from fines that the
 > NCRWQCB
 > levies to SCWA and then requires the SCWA to fund to salmon
 > restoration
 > non-profits. Does the SCWA intentionally spill drinking water just to
 > fund these projects ? Will those funding recipients be commenting
 > to this
 > and other EIRs planned by SCWA ?
 >
 > "County to fund salmon recovery study" Press Democrat article June 14,
 > 2006, by Bley Rose, mentions \$400,000 designated toward steelhead and
 > \$200,000 designated toward coho salmon recovery programs, not to
 > mention
 > lobbyists and lawyer fees.
 >
 > If E. Coli can survive chlorination/dechlorination
 >
 > "E. Coli thrive outside wastewater treatment plants" article from ES&T
 > Online April 6, 2005
 > [http://pubs.acs.org/subscribe/journals/esthag-w/2005/apr/science/
 > pt_ecoli.html](http://pubs.acs.org/subscribe/journals/esthag-w/2005/apr/science/pt_ecoli.html)
 >
 > then we can assume that the waterboard's designation of pathogens from
 > Monte Rio to Fife Creek in Guerneville is from the SCWA's vast slug of
 > discharge, and NOT from septic tanks along the river. We can also
 > assume
 > that chlorine is more of a problem to salmonids than supposed and that
 > disposing of wastewater will HAVE to have increased removal of
 > chlorine
 > either before going to consumers of drinking water, unlikely, or
 > before
 > being discharged to the Russian River or irrigation fields.
 >
 > Sincerely,
 > Gene Koch
 > August 24, 2006

No address

Sgt 10-06

Dear Sir:

We all know that once the bureaucratic mind (those who know better) is set on a course of action, what the public thinks is only so much froth to be maneuvered through. So here's a quilt full...

~~My~~ I read through your proposal for 33 miles of pipelines to get rid of Greenville's treated sewer water ^{and concluded it to be} a monumental folly. Millions upon millions of dollars will be spent, digging up the roads, laying 8 inch pipe, building pumping stations, reservoirs of sewer water — which will take years and years. A huge payroll and countless architects, engineers, environmentalists, laborers — and machine equipment will be bought or leased. And maintaining it will keep the water department busy for ever. Is your project any more feasible than the Alaska bridge to nowhere?

Your basis for this monstrous public works project is that over ten years ago a late rain in the month of May overwhelmed the sewer plant and the excess ended up in the Russian River. But the first question to be answered is how many times in the last hundred years has a late rain inundated Greenville and how many times will it happen in the next hundred years. The heavy rains end in Greenville typically in February. Of course the real reason for the pipelines is to make way for the inclusion of Occidental, Camp Meeker, Mate Rio in the Greenville

plant. While you're at it why not include all the rest of Western Sonoma County? Of course at the bottom of it all this is what Supervisor Riley wants and you all dance to his tune.

I see no mention in your proposal of who will pay for the pipe lines. Will it be the current rate payers? Will it be the new rate payers from Occidental? (after all it's for their benefit and their benefit alone — as things stand the current rate payers are being adequately served). Or will the Water authority pay for the major project. Or will it require a vote of the people?

All in all, planning to increase the getting rid of treated sewer water, the idea presented is to send it to the outskirts of Santa Rosa and Sebastopol. What happens if they decide on a similar solution and pipe their treated water west, to the outskirts of Guerneville. ~~What's worse~~ no mention is made of exactly who wants this water. Will it be free? Will they buy it? Has Norbell agreed to sign on?

All said and done, your plan is an embarrassing stupid one. It will never get the support of the Guerneville taxpayers. It will never get the support of the current rate payers.

A solution? All the powers that be have to do is inform the people of Occidental/Camp Meeker that they have to build or re-build their own sewer plant. Monte Rio has been told and Forestville bit the bullet. No pipe lines will be needed in any direction.

Sincerely
No Abuse
D. A. Lough

Public Comment Form:

RUSSIAN RIVER COUNTY SANITATION DISTRICT

PUBLIC SCOPING MEETING

IRRIGATION RELIABILITY AND BENEFICIAL REUSE PROJECT

MEETING COMMENTS

(Comment Due By October 6, 2006)

Scoping meeting location: Guerneville

I would like the following topics, issues, and/or concerns to be covered in the Draft Environmental Impact Report: Safety issue of ponds and distribution and holding tanks
Financial impact to neighbors

DOCUMENT COPY KEEP/DISCARD
SONOMA COUNTY WATER AGENCY

SEP 27 2006

Orig. Filed

PROJ/RUSSIAN RIVER CSD IRRIGATION
EXPANSION 70-13-7 # (Agree. For
Environmental Compliance Services)
TW# 05/06-96 (7027-6)

I would like to make the following statement: The project is excessive. The water
surely can be used closer to the area of the Sanitation district.

(If you need additional room, please use reverse side)

Name: Jennie Madden Phone Number: (707) 887-1031

Affiliation: Home Owner

Address: 7355 Covey Road Foresville, CA 95436

E-mail address: _____

Would you like your name to be added to the mailing list for this project? If you are on the mailing list you will receive notification of public meetings and notice of publication of environmental documents.

X YES NO

Note: Fill this out today before you leave the scoping meeting or mail your comments to Jeff Church, SCWA, P.O. Box 11628, Santa Rosa, 95406. (Comment Due By October 6, 2006).

Russian River County Sanitation District
Sept 21, 2006

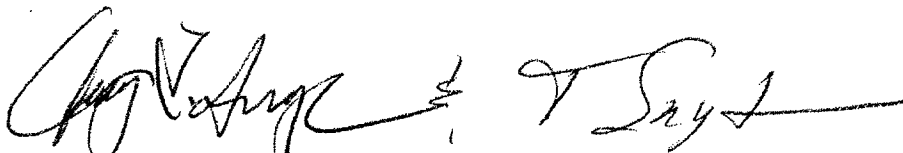
Attn: Jeff Church

We live on the North end of Green Valley Road at Hwy 116 (Pocket Canyon). We are concerned about the proposed installation of the recycled wastewater distribution system pipeline and its associated storage tanks, pumps, and energy recovery stations.

The proposed alternative 1 pipeline route would be installed along that portion of Green Valley Road where the majority of wells are shallow, approximately 25ft in depth. Any leak or damage to the pipeline would contaminate the wells, as this aquifer is shale and of porous material. The storage tanks would have a very negative impact on property values as would any pump or energy recovery systems.

Finally, it would appear that Alternative 2 offers more in the way of potential recycled wastewater use for pasture, agriculture, and vineyards. Also, a short route to Armstrong Woods would feed acres of Redwood trees that would be happy to use the water, plus being less costly to the tax payer.

Thank you for your consideration,

Handwritten signatures of Jerry and Tami Snyder in black ink.

Jerry and Tami Snyder
14230 Green Valley Rd
Forestville, Ca 95436
(707)887-0616

APPENDIX C

SOIL TYPES

TABLE 1
ALIGNMENT 1 – SOIL TYPES
GREEN VALLEY ALIGNMENT

Map Unit Symbol	Soil Type	Slope	Soil Erosion K Factor	Hydro Group	Surface Runoff	Flooding Frequency	Ponding Frequency
AkC	Arbuckle Gravelly Loam	5% to 9%	0.20	B	Medium	None	None
HhF	Hugo Loam	30% to 50%	0.37	B	High	None	None
HkF	Hugo Very Gravelly Loam	50% to 75%	0.15	B	High	None	None
HkG	Hugo Very Gravelly Loam	50% to 75%	0.15	B	High	None	None
HnG	Hugo- Josephine Complex	50% to 75%	0.15	B	High	None	None
YIA	Yolo Sandy Loam	0% to 2%	0.37	B	Low	None	None
YoB	Yolo Loam, Overwash	0% to 5%	0.43	B	Low	Occasional	None
BhA	Blucher Loam	0% to 2%	0.37	B	Medium	None	Occasional
BhB	Blucher Loam	2% to 55	0.37	B	Medium	None	Occasional
GdC	Goldridge Fine Sandy Loam	2% to 9%	0.28	B	Medium	None	None
GdD2	Goldridge Fine Sandy Loam, eroded	2% to 15%	0.28	B	High	None	None
GdE2	Goldridge Fine Sandy Loam, eroded	15% to 30%	0.28	B	High	None	None
JoF	Josephine Loam	30% to 50%	0.32	B	High	None	None
JoG	Josephine Loam	50% to 75%	0.32	B	High	None	None

Map Unit Symbol	Soil Type	Slope	Soil Erosion K Factor	Hydro Group	Surface Runoff	Flooding Frequency	Ponding Frequency
BcA	Blucher Fine Sandy Loam, Overwash	0% to 2%	0.32	C	Medium	Very Brief	Occasional
GdD	Goldfridge Fine Sandy Loam	2% to 9%	0.28	B	Medium	None	None
JoF2	Josephine Loam, Eroded	30% to 50%	0.32	B	High	None	None
SbC	Sebastopol Sandy Loam	2% to 9%	0.28	B	High	None	None
SbD	Sebastopol Sandy Loam	9% to 15%	0.28	B	Very High	None	None

Source: USDA, Natural Resource Conservation Service, Web Soil Survey, 2006.

**TABLE 2
ALIGNMENT 2 – SOIL TYPES
RUSSIAN RIVER VALLEY ALIGNMENT**

Map Unit Symbol	Soil Type	Slope	Soil Erosion K Factor	Hydro Group	Surface Runoff	Flooding Frequency	Ponding Frequency
HkG	Hugo Very Gravelly Loam	50% to 75%	0.15	B	High	None	None
YnA	Yolo Loam	0% to 5%	0.37	B	Low	None	None
YsA	Yolo Silt Loam	0% to 2%	0.43	B	Low	None	None
AdA	Alluvial Land, Sandy	N/A	0.15	A	Negligible	None	Occasional
AgD	Arbuckle Gravelly Sandy Loam	5% to 15%	0.20	B	Medium	None	None
AgE	Arbuckle Gravelly Loam	15% to 30%	0.20	B	High	None	None
AkB	Arbuckle Gravelly Loam	0% to 5%	0.20	B	Low	None	None
CrA	Cortina Very Gravelly Sandy Loam	0% to 2%	0.10	A	Very Low	None	Occasional
HkF	Hugo Very Gravelly Loam	30% to 50%	0.15	B	High	None	None
YmB	Yolo Sandy Loam Overwash	0% to 5%	0.37	B	Low	None	Occasional
GdC	Goldridge Fine Sandy Loam	2% to 9%	0.28	B	Medium	None	None
HIF	Hugo-Atwell Complex	30% to 50%	0.15	B	High	None	None
HIG	Hugo-Atwell Complex	50% to 75%	0.15	B	High	None	None
YoB	Yolo Loam, Overwash	0% to 5%	0.43	B	Low	None	Occasional
YuF	Yorkville Clay Loam	30% to 50%	0.32	D	Very High	None	None

Map Unit Symbol	Soil Type	Slope	Soil Erosion K Factor	Hydro Group	Surface Runoff	Flooding Frequency	Ponding Frequency
GdD	Goldridge Find Sandy Loam	9% to 15%	0.28	B	Medium	None	None
GdE	Goldridge Find Sandy Loam	15% to 30%	0.28	B	High	None	None
GdE2	Goldridge Find Sandy Loam, Eroded	15% to 20%	0.28	B	Very High	None	None
GdF	Goldridge Find Sandy Loam	30% to 50%	0.28	B	High	None	None
GdF2	Goldridge Find Sandy Loam, Eroded	30% to 50%	0.28	B	Very High	None	None
HkF	Hugo Very Gravelly Loam	30% to 50%	0.15	B	High	None	None
HnG	Hugo-Josephine Complex	50% to 75%	0.15	B	High	None	None
LaE	Laniger Loam	15% to 30%	0.32	C	High	None	None
SbD	Sebastopol Sandy Loam	9% to 15%	0.28	B	Very High	None	None
YoB	Yolo Loam, Overwash	0% to 5%	0.43	B	Low	None	Occasional
YsA	Yolo Silt Loam	0% to 2%	0.43	B	Low	None	None

Source: USDA, Natural Resource Conservation Service, Web Soil Survey, 2006.

APPENDIX D

SPECIAL-STATUS SPECIES

**Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested**

Document Number: 070315091825

Database Last Updated: March 5, 2007

Quad Lists

Listed Species

Invertebrates

Speyeria zerene myrtleae

Myrtle's silverspot butterfly (E)

Syncaris pacifica

California freshwater shrimp (E)

Fish

Eucyclogobius newberryi

tidewater goby (E)

Oncorhynchus kisutch

coho salmon - central CA coast (E) (NMFS)

Critical habitat, coho salmon - central CA coast (X) (NMFS)

Oncorhynchus mykiss

Central California Coastal steelhead (T) (NMFS)

Central Valley steelhead (T) (NMFS)

Critical habitat, Central California coastal steelhead (X) (NMFS)

Northern California steelhead (T) (NMFS)

Oncorhynchus tshawytscha

California coastal chinook salmon (T) (NMFS)

Critical habitat, California coastal chinook salmon (X) (NMFS)

Amphibians

Ambystoma californiense

California tiger salamander, central population (T)

California tiger salamander, Sonoma Co. pop (E)

Rana aurora draytonii

California red-legged frog (T)

Birds

Brachyramphus marmoratus

Critical habitat, marbled murrelet (X)

marbled murrelet (T)

Charadrius alexandrinus nivosus

western snowy plover (T)

Haliaeetus leucocephalus

bald eagle (T)

Pelecanus occidentalis californicus

California brown pelican (E)

Strix occidentalis caurina

northern spotted owl (T)

Plants

Alopecurus aequalis var. *sonomensis*

Sonoma alopecurus (E)

Blennosperma bakeri

Baker's stickyseed [=Sonoma Sunshine] (E)

Carex albida

white sedge (E)
Clarkia imbricata
Vine Hill clarkia (E)
Cordylanthus tenuis ssp. capillaris
Pennell's bird's-beak (E)
Delphinium bakeri
Critical habitat, Baker's larkspur (X)
Lasthenia burkei
Burke's goldfields (E)
Lilium pardalinum ssp. pitkinense
Pitkin Marsh lily (E)
Limnanthes vincularis
Sebastopol meadowfoam (E)

Quads Containing Listed, Proposed or Candidate Species:

SEBASTOPOL (502A)
CAMP MEEKER (502B)
DUNCAN MILLS (503A)
GUERNEVILLE (518C)

County Lists

No county species lists requested.

Key:

(E) *Endangered* - Listed as being in danger of extinction.
(T) *Threatened* - Listed as likely to become endangered within the foreseeable future.
(P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.
(NMFS) Species under the Jurisdiction of the National Oceanic & Atmospheric Administration Fisheries Service. Consult with them directly about these species.
Critical Habitat - Area essential to the conservation of a species.
(PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.
(C) *Candidate* - Candidate to become a proposed species.
(V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
(X) *Critical Habitat* designated for this species

Important Information About Your Species List

How We Make Species Lists

We store information about endangered and threatened species lists by U.S. Geological Survey 7½ minute quads. The United States is divided into these quads, which are about the size of San Francisco.

The animals on your species list are ones that occur within, **or may be affected by** projects within, the quads covered by the list.

- Fish and other aquatic species appear on your list if they are in the same watershed as your quad or if water use in your quad might affect them.
- Amphibians will be on the list for a quad or county if pesticides applied in that area may be carried to their habitat by air currents.
- Birds are shown regardless of whether they are resident or migratory. Relevant birds on the county list should be considered regardless of whether they appear on a quad list.

Plants

Any plants on your list are ones that have actually been observed in the area covered by the list. Plants may exist in an area without ever having been detected there. You can find out what's in the surrounding quads through the California Native Plant Society's online [Inventory of Rare and Endangered Plants](#).

Surveying

Some of the species on your list may not be affected by your project. A trained biologist or botanist, familiar with the habitat requirements of the species on your list, should determine whether they or habitats suitable for them may be affected by your project. We recommend that your surveys include any proposed and candidate species on your list.

For plant surveys, we recommend using the [Guidelines for Conducting and Reporting Botanical Inventories](#). The results of your surveys should be published in any environmental documents prepared for your project.

Your Responsibilities Under the Endangered Species Act

All animals identified as listed above are fully protected under the Endangered Species Act of 1973, as amended. Section 9 of the Act and its implementing regulations prohibit the take of a federally listed wildlife species. Take is defined by the Act as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" any such animal.

Take may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or shelter (50 CFR §17.3).

Take incidental to an otherwise lawful activity may be authorized by one of two procedures:

- If a Federal agency is involved with the permitting, funding, or carrying out of a project that may result in take, then that agency must engage in a formal [consultation](#) with the Service.

During formal consultation, the Federal agency, the applicant and the Service work together to avoid or minimize the impact on listed species and their habitat. Such consultation would result in a biological opinion by the Service addressing the anticipated effect of the project on listed and proposed species. The opinion may authorize a limited level of incidental take.

- If no Federal agency is involved with the project, and federally listed species may be taken as part of the project, then you, the applicant, should apply for an incidental take permit. The Service may issue such a permit if you submit a satisfactory conservation plan for the species that would be affected by your project.

Should your survey determine that federally listed or proposed species occur in the area and are likely to be affected by the project, we recommend that you work with this office and the California Department of Fish and Game to develop a plan that minimizes the project's direct and indirect impacts to listed species and compensates for project-related loss of habitat. You should include the plan in any environmental documents you file.

Critical Habitat

When a species is listed as endangered or threatened, areas of habitat considered essential to its conservation may be designated as [critical habitat](#). These areas may require special management considerations or protection. They provide needed space for growth and normal behavior; food, water, air, light, other nutritional or physiological requirements; cover or shelter; and sites for breeding, reproduction, rearing of offspring, germination or seed dispersal.

Although critical habitat may be designated on private or State lands, activities on these lands are not restricted unless there is Federal involvement in the activities or direct harm to listed wildlife.

If any species has proposed or designated critical habitat within a quad, there will be a separate line for this on the species list. Boundary descriptions of the critical habitat may be found in the Federal Register. The information is also reprinted in the Code of Federal Regulations (50 CFR 17.95). See our [critical habitat page](#) for maps.

Candidate Species

We recommend that you address impacts to candidate species. We put plants and animals on our candidate list when we have enough scientific information to eventually propose them for listing as threatened or endangered. By considering these species early in your planning process you may be able to avoid the problems that could develop if one of these candidates was listed before the end of your project.

Species of Concern

The Sacramento Fish & Wildlife Office no longer maintains a list of species of concern. However, various other agencies and organizations maintain lists of at-risk species. These lists provide essential information for land management planning and conservation efforts. [More info](#)

Wetlands

If your project will impact wetlands, riparian habitat, or other jurisdictional waters as defined by section 404 of the Clean Water Act and/or section 10 of the Rivers and Harbors Act, you will need to obtain a permit from the U.S. Army Corps of Engineers. Impacts to wetland habitats require site specific mitigation and monitoring. For questions regarding wetlands, please contact Mark Littlefield of this office at (916) 414-6580.

Updates

Our database is constantly updated as species are proposed, listed and delisted. If you address proposed and candidate species in your planning, this should not be a problem. However, we recommend that you get an updated list every 90 days. That would be June 13, 2007.

California Department of Fish and Game

Natural Diversity Database

Special-Status Species known to occur in the following 7.5" topographic quadrangles:

Camp Meeker, Duncan Mills, Guerneville, and Sebastopol

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1 <i>Agrostis blasdalei</i> Blasdale's bent grass	PMPOA04060			G2	S2.2	1B.2
2 <i>Alopecurus aequalis</i> var. <i>sonomensis</i> Sonoma alopecurus	PMPOA07012	Endangered		G5T1Q	S1.1	1B.1
3 <i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened		G2G3	S2S3	SC
4 <i>Amorpha californica</i> var. <i>napensis</i> Napa false indigo	PDFAB08012			G4T2	S2.2	1B.2
5 <i>Andrena blennospermatis</i> A vernal pool andrenid bee	IIHYM35030			G2	S2	
6 <i>Antrozous pallidus</i> pallid bat	AMACC10010			G5	S3	SC
7 <i>Arborimus pomo</i> Sonoma tree vole	AMAFF10030			G3	S3	SC
8 <i>Arctostaphylos bakeri</i> ssp. <i>bakeri</i> Baker's manzanita	PDERI04221		Rare	G2T2	S2.1	1B.1
9 <i>Arctostaphylos bakeri</i> ssp. <i>sublaevis</i> The Cedars manzanita	PDERI04222		Rare	G2T2	S2.2	1B.2
10 <i>Arctostaphylos densiflora</i> Vine Hill manzanita	PDERI040C0		Endangered	G1	S1.1	1B.1
11 <i>Arctostaphylos stanfordiana</i> ssp. <i>decumbens</i> Rincon manzanita	PDERI041G4			G3T1	S1.1	1B.1
12 <i>Ardea herodias</i> great blue heron	ABNGA04010			G5	S4	
13 <i>Blennosperma bakeri</i> Sonoma sunshine	PDAST1A010	Endangered	Endangered	G1	S1.2	1B.1
14 <i>Calamagrostis crassiglumis</i> Thurber's reed grass	PMPOA17070			G3Q	S1.2	2.1
15 <i>Calystegia purpurata</i> ssp. <i>saxicola</i> coastal bluff morning-glory	PDCON040D2			G4T2	S2.2	1B.2
16 <i>Campanula californica</i> swamp harebell	PDCAM02060			G3	S3.2	1B.2
17 <i>Carex albida</i> white sedge	PMCYP030D0	Endangered	Endangered	G1	S1.1	1B.1
18 <i>Carex comosa</i> bristly sedge	PMCYP032Y0			G5	S2?	2.1
19 <i>Castilleja uliginosa</i> Pitkin Marsh Indian paintbrush	PDSCR0D380		Endangered	GXQ	SX	1A
20 <i>Ceanothus confusus</i> Rincon Ridge ceanothus	PDRHA041K0			G2	S2.2	1B.1
21 <i>Ceanothus foliosus</i> var. <i>vineatus</i> Vine Hill ceanothus	PDRHA040D6			G3T1	S1?	1B.1
22 <i>Ceanothus purpureus</i> holly-leaved ceanothus	PDRHA04160			G2	S2.2	1B.2
23 <i>Cerorhinca monocerata</i> rhinoceros auklet	ABNNN11010			G5	S3	SC
24 <i>Chorizanthe valida</i> Sonoma spineflower	PDPGN040V0	Endangered	Endangered	G1	S1.1	1B.1

California Department of Fish and Game
Natural Diversity Database

Special-Status Species known to occur in the following 7.5" topographic quadrangles:
Camp Meeker, Duncan Mills, Guerneville, and Sebastopol

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
25 <i>Clarkia imbricata</i> Vine Hill clarkia	PDONA050K0	Endangered	Endangered	G1	S1.1	1B.1
26 <i>Coastal Brackish Marsh</i>	CTT52200CA			G2	S2.1	
27 <i>Coastal Terrace Prairie</i>	CTT41100CA			G2	S2.1	
28 <i>Coastal and Valley Freshwater Marsh</i>	CTT52410CA			G3	S2.1	
29 <i>Cordylanthus tenuis ssp. capillaris</i> Pennell's bird's-beak	PDSCR0J0S2	Endangered	Rare	G4G5T1	S1.2	1B.2
30 <i>Danaus plexippus</i> monarch butterfly	IILEPP2010			G5	S3	
31 <i>Delphinium bakeri</i> Baker's larkspur	PDRAN0B050	Endangered	Endangered	G1	S1.1	1B.1
32 <i>Delphinium luteum</i> yellow larkspur	PDRAN0B0Z0	Endangered	Rare	G1	S1.1	1B.1
33 <i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
34 <i>Dubiraphia giulianii</i> Giuliani's dubiraphian riffle beetle	IICOL5A020			G1G3	S?	
35 <i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
36 <i>Emys (=Clemmys) marmorata marmorata</i> northwestern pond turtle	ARAAD02031			G3G4T3	S3	SC
37 <i>Erigeron angustatus</i> narrow-leaved daisy	PDAST3M5G0			G1	S1.2?	1B.2
38 <i>Erigeron serpentinus</i> serpentine daisy	PDAST3M5M0			G1	S1.3	1B.3
39 <i>Fratercula cirrhata</i> tufted puffin	ABNNN12010			G5	S2	SC
40 <i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0			G2	S2.2	1B.2
41 <i>Hesperervax sparsiflora var. brevifolia</i> short-leaved evax	PDASTE5011			G4T3	S3.2	2.2
42 <i>Horkelia tenuiloba</i> thin-lobed horkelia	PDROS0W0E0			G2	S2.2	1B.2
43 <i>Hysteroecarpus traskii pomo</i> Russian River tule perch	AFCQK02011			G5T2	S2	SC
44 <i>Lasthenia burkei</i> Burke's goldfields	PDAST5L010	Endangered	Endangered	G1	S1.1	1B.1
45 <i>Lasthenia macrantha ssp. bakeri</i> Baker's goldfields	PDAST5L0C4			G3TH	SH	1B.2
46 <i>Lasthenia macrantha ssp. macrantha</i> perennial goldfields	PDAST5L0C5			G3T2	S2.2	1B.2
47 <i>Legenere limosa</i> legenere	PDCAM0C010			G2	S2.2	1B.1
48 <i>Lessingia arachnoidea</i> Crystal Springs lessingia	PDAST5S0C0			G1	S1.2	1B.2
49 <i>Lilium pardalinum ssp. pitkinense</i> Pitkin Marsh lily	PMLIL1A0H3	Endangered	Endangered	G5T1	S1.1	1B.1

California Department of Fish and Game

Natural Diversity Database

Special-Status Species known to occur in the following 7.5" topographic quadrangles:

Camp Meeker, Duncan Mills, Guerneville, and Sebastopol

Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
50 <i>Limnanthes vincularis</i> Sebastopol meadowfoam	PDLIM02090	Endangered	Endangered	G2	S2.1	1B.1
51 <i>Linderiella occidentalis</i> California linderiella	ICBRA06010			G3	S2S3	
52 <i>Lupinus tidestromii</i> Tidestrom's lupine	PDFAB2B3Y0	Endangered	Endangered	G2	S2.1	1B.1
53 <i>Microseris paludosa</i> marsh microseris	PDAST6E0D0			G2	S2.2	1B.2
54 <i>Monardella villosa</i> ssp. <i>globosa</i> robust monardella	PDLAM180P7			G5T2	S2.2	1B.2
55 <i>Navarretia leucocephala</i> ssp. <i>bakeri</i> Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1
56 <i>Northern Hardpan Vernal Pool</i>	CTT44110CA			G3	S3.1	
57 <i>Northern Vernal Pool</i>	CTT44100CA			G2	S2.1	
58 <i>Pandion haliaetus</i> osprey	ABNKC01010			G5	S3	SC
59 <i>Pleuropogon hooverianus</i> North Coast semaphore grass	PMPOA7Y031		Threatened	G1	S1.1	1B.1
60 <i>Rana aurora draytonii</i> California red-legged frog	AAABH01022	Threatened		G4T2T3	S2S3	SC
61 <i>Rana boylei</i> foothill yellow-legged frog	AAABH01050			G3	S2S3	SC
62 <i>Rhynchospora alba</i> white beaked-rush	PMCYP0N010			G5	S3.2	2.2
63 <i>Rhynchospora californica</i> California beaked-rush	PMCYP0N060			G1	S1.1	1B.1
64 <i>Rhynchospora capitellata</i> brownish beaked-rush	PMCYP0N080			G5	S2S3	2.2
65 <i>Rhynchospora globularis</i> var. <i>globularis</i> round-headed beaked-rush	PMCYP0N0W1			G5?T5?	S1.1	2.1
66 <i>Riparia riparia</i> bank swallow	ABPAU08010		Threatened	G5	S2S3	
67 <i>Sidalcea calycosa</i> ssp. <i>rhizomata</i> Point Reyes checkerbloom	PDMAL11012			G5T2	S2.2	1B.2
68 <i>Sidalcea malviflora</i> ssp. <i>purpurea</i> purple-stemmed checkerbloom	PDMAL110FL			G5T2	S2.2	1B.2
69 <i>Speyeria zerene myrtleae</i> Myrtle's silverspot	IILEPJ6089	Endangered		G5T1	S1	
70 <i>Syncaris pacifica</i> California freshwater shrimp	ICMAL27010	Endangered	Endangered	G1	S1	
71 <i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
72 <i>Trifolium amoenum</i> showy indian clover	PDFAB40040	Endangered		G1	S1.1	1B.1
73 <i>Trifolium depauperatum</i> var. <i>hydrophilum</i> saline clover	PDFAB400R5			G5T2?	S2.2?	1B.2

CNPS Inventory of Rare and Endangered Plants

Status: Plant Press Manager window with 55 items - Thu, Mar. 15, 2007 08:21 c

Reformat list as: Standard List - with Plant Press controls ▼

ECOLOGICAL REPORT

scientific	family	life form	blooming	communities	elevation	CNPS
<u>Agrostis blasdalei</u>	Poaceae	perennial rhizomatous herb	May-Jul	•Coastal bluff scrub (CBScr) •Coastal dunes (CoDns) •Coastal prairie (CoPrr)	5 - 150 meters	List 1B.2
<u>Alopecurus aequalis</u> var. <u>sonomensis</u>	Poaceae	perennial herb	May-Jul	•Marshes and swamps (MshSw)(freshwater) •Riparian scrub (RpScr)	5 - 365 meters	List 1B.1
<u>Amorpha californica</u> var. <u>napensis</u>	Fabaceae	perennial deciduous shrub	Apr-Jul	•Broadleafed upland forest (BUFrs)(openings) •Chaparral (Chprl) •Cismontane woodland (CmWld)	120 - 2000 meters	List 1B.2
<u>Arctostaphylos</u> <u>bakeri</u> ssp. <u>bakeri</u>	Ericaceae	perennial evergreen shrub	Feb-Apr	•Broadleafed upland forest (BUFrs) •Chaparral (Chprl)/often serpentine	75 - 300 meters	List 1B.1
<u>Arctostaphylos</u> <u>bakeri</u> ssp. <u>sublaevis</u>	Ericaceae	perennial evergreen shrub	Feb-May	•Closed-cone coniferous forest (CCFr) •Chaparral (Chprl)/serpentine seeps	185 - 760 meters	List 1B.2
<u>Arctostaphylos</u> <u>densiflora</u>	Ericaceae	perennial evergreen shrub	Feb-Apr	•Chaparral (Chprl)(acid marine sand)	50 - 120 meters	List 1B.1
<u>Arctostaphylos</u> <u>stanfordiana</u> ssp. <u>decumbens</u>	Ericaceae	perennial evergreen shrub	Feb-Apr	•Chaparral (Chprl)(rhyolitic) •Cismontane woodland (CmWld)	75 - 370 meters	List 1B.1
<u>Blennosperma</u> <u>bakeri</u>	Asteraceae	annual herb	Mar-May	•Valley and foothill grassland (VFGrs)(mesic) •Vernal pools (VnPls)	10 - 110 meters	List 1B.1
<u>Calamagrostis</u> <u>crassiglumis</u>	Poaceae	perennial rhizomatous herb	May-Jul	•Coastal scrub (CoScr)(mesic) •Marshes and swamps (MshSw)(freshwater)	10 - 45 meters	List 2.1
<u>Calystegia purpurata</u> ssp. <u>saxicola</u>	Convolvulaceae	perennial herb	May-Sep	•Coastal dunes (CoDns) •Coastal scrub (CoScr) •North Coast coniferous forest (NCFrs)	10 - 105 meters	List 1B.2

<u>Campanula californica</u>	Campanulaceae	perennial rhizomatous herb	Jun-Oct	<ul style="list-style-type: none"> •Bogs and fens (BgFns) •Closed-cone coniferous forest (CCFrS) •Coastal prairie (CoPrr) •Meadows and seeps (Medws) •Marshes and swamps (MshSw)(freshwater) •North Coast coniferous forest (NCFrs)/mesic 	1 - 405 meters	List 1B.2
<u>Carex albid</u>	Cyperaceae	perennial rhizomatous herb	May-Jul	<ul style="list-style-type: none"> •Bogs and fens (BgFns) •Marshes and swamps (MshSw)(freshwater) 	15 - 90 meters	List 1B.1
<u>Carex comosa</u>	Cyperaceae	perennial rhizomatous herb	May-Sep	<ul style="list-style-type: none"> •Coastal prairie (CoPrr) •Marshes and swamps (MshSw)(lake margins) •Valley and foothill grassland (VFGrs) 	0 - 625 meters	List 2.1
<u>Castilleja uliginosa</u>	Scrophulariaceae	perennial herb hemiparasitic	Jun-Jul	<ul style="list-style-type: none"> •Marshes and swamps (MshSw)(freshwater) 	60 - 60 meters	List 1A
<u>Ceanothus confusus</u>	Rhamnaceae	perennial evergreen shrub	Feb-Jun	<ul style="list-style-type: none"> •Closed-cone coniferous forest (CCFrS) •Chaparral (Chprr) •Cismontane woodland (CmWld)/volcanic or serpentine 	75 - 1065 meters	List 1B.1
<u>Ceanothus foliosus</u> <u>var. vineatus</u>	Rhamnaceae	perennial evergreen shrub	Mar-May	<ul style="list-style-type: none"> •Chaparral (Chprr) 	45 - 305 meters	List 1B.1
<u>Ceanothus purpureus</u>	Rhamnaceae	perennial evergreen shrub	Feb-Jun	<ul style="list-style-type: none"> •Chaparral (Chprr) •Cismontane woodland (CmWld)/volcanic, rocky 	120 - 640 meters	List 1B.2
<u>Chorizanthe valida</u>	Polygonaceae	annual herb	Jun-Aug	<ul style="list-style-type: none"> •Coastal prairie (CoPrr)(sandy) 	10 - 305 meters	List 1B.1
<u>Clarkia imbricata</u>	Onagraceae	annual herb	Jun-Aug	<ul style="list-style-type: none"> •Chaparral (Chprr) •Valley and foothill grassland (VFGrs)/acidic sandy loam 	50 - 75 meters	List 1B.1
<u>Cordylanthus tenuis</u> <u>ssp. capillaris</u>	Scrophulariaceae	annual herb hemiparasitic	Jun-Sep	<ul style="list-style-type: none"> •Closed-cone coniferous forest (CCFrS) •Chaparral (Chprr)/serpentine 	45 - 305 meters	List 1B.2
<u>Delphinium bakeri</u>	Ranunculaceae	perennial herb	Mar-May	<ul style="list-style-type: none"> •Broadleaved upland forest (BUFrS) •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs)/decomposed shale, often mesic 	80 - 305 meters	List 1B.1

<u>Delphinium luteum</u>	Ranunculaceae	perennial herb	Mar-May	<ul style="list-style-type: none"> •Chaparral (Chprl) •Coastal prairie (CoPrr) •Coastal scrub (CoScr)/rocky 	0 - 100 meters	List 1B.1
<u>Downingia pusilla</u>	Campanulaceae	annual herb	Mar-May	<ul style="list-style-type: none"> •Valley and foothill grassland (VFGrs)(mesic) •Vernal pools (VnPIs) 	1 - 445 meters	List 2.2
<u>Erigeron angustatus</u>	Asteraceae	perennial herb	May-Sep	<ul style="list-style-type: none"> •Chaparral (Chprl)(serpentine or volcanic) 	80 - 290 meters	List 1B.2
<u>Erigeron biolettii</u>	Asteraceae	perennial herb	Jun-Oct	<ul style="list-style-type: none"> •Broadleafed upland forest (BUFrs) •Cismontane woodland (CmWld) •North Coast coniferous forest (NCFrs)/rocky, mesic 	30 - 1100 meters	List 3
<u>Erigeron serpentinus</u>	Asteraceae	perennial herb	May-Aug	<ul style="list-style-type: none"> •Chaparral (Chprl)(serpentine, seeps) 	60 - 670 meters	List 1B.3
<u>Eriogonum luteolum</u> var. <u>caninum</u>	Polygonaceae	annual herb	Jun-Sep	<ul style="list-style-type: none"> •Chaparral (Chprl) •Coastal prairie (CoPrr) •Valley and foothill grassland (VFGrs)/serpentine 	10 - 500 meters	List 3.2
<u>Erythronium revolutum</u>	Liliaceae	perennial bulbiferous herb	Mar-Jul(Aug) Months in parentheses are uncommon.	<ul style="list-style-type: none"> •Bogs and fens (BgFns) •Broadleafed upland forest (BUFrs) •North Coast coniferous forest (NCFrs)/mesic, streambanks 	0 - 1325 meters	List 2.2
<u>Fritillaria liliacea</u>	Liliaceae	perennial bulbiferous herb	Feb-Apr	<ul style="list-style-type: none"> •Cismontane woodland (CmWld) •Coastal prairie (CoPrr) •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs)/often serpentine 	3 - 410 meters	List 1B.2
<u>Gilia capitata</u> ssp. <u>tomentosa</u>	Polemoniaceae	annual herb	May-Jul	<ul style="list-style-type: none"> •Coastal bluff scrub (CBScr)(rocky, outcrops) 	15 - 155 meters	List 1B.1
<u>Hemizonia congesta</u> ssp. <u>leucocephala</u>	Asteraceae	annual herb	Apr-Oct	<ul style="list-style-type: none"> •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs)/sometimes roadsides 	25 - 455 meters	List 3
<u>Hesperis matronalis</u> var. <u>brevifolia</u>	Asteraceae	annual herb	Mar-Jun	<ul style="list-style-type: none"> •Coastal bluff scrub (CBScr)(sandy) •Coastal dunes (CoDns) 	0 - 215 meters	List 2.2
<u>Holocarpha macradenia</u>	Asteraceae	annual herb	Jun-Oct	<ul style="list-style-type: none"> •Coastal prairie (CoPrr) •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs)/often clay, sandy 	10 - 220 meters	List 1B.1
<u>Horkelia tenuiloba</u>	Rosaceae	perennial herb	May-Jul	<ul style="list-style-type: none"> •Broadleafed upland forest (BUFrs) •Chaparral (Chprl) •Valley and foothill grassland (VFGrs)/mesic openings, sandy 	50 - 500 meters	List 1B.2

<u>Lasthenia burkei</u>	Asteraceae	annual herb	Apr-Jun	<ul style="list-style-type: none"> •Meadows and seeps (Medws)(mesic) •Vernal pools (VnPIs) 	15 - 600 meters	List 1B.1
<u>Lasthenia macrantha</u> <u>ssp. bakeri</u>	Asteraceae	perennial herb	Apr-Oct	<ul style="list-style-type: none"> •Closed-cone coniferous forest (CCFr)(openings) •Coastal scrub (CoScr) •Meadows and seeps (Medws) •Marshes and swamps (MshSw) 	60 - 520 meters	List 1B.2
<u>Lasthenia macrantha</u> <u>ssp. macrantha</u>	Asteraceae	perennial herb	Jan-Nov	<ul style="list-style-type: none"> •Coastal bluff scrub (CBSr) •Coastal dunes (CoDns) •Coastal scrub (CoScr) 	5 - 520 meters	List 1B.2
<u>Legenere limosa</u>	Campanulaceae	annual herb	Apr-Jun	<ul style="list-style-type: none"> •Vernal pools (VnPIs) 	1 - 880 meters	List 1B.1
<u>Leptosiphon jepsonii</u>	Polemoniaceae	annual herb	Apr-May	<ul style="list-style-type: none"> •Chaparral (Chprl) •Cismontane woodland (CmWld)/usually volcanic 	100 - 500 meters	List 1B.2
<u>Lessingia arachnoidea</u>	Asteraceae	annual herb	Jul-Oct	<ul style="list-style-type: none"> •Cismontane woodland (CmWld) •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs)/serpentine, often roadsides 	60 - 200 meters	List 1B.2
<u>Lessingia hololeuca</u>	Asteraceae	annual herb	Jun-Oct	<ul style="list-style-type: none"> •Broadleafed upland forest (BUFr) •Coastal scrub (CoScr) •Lower montane coniferous forest (LCFr) •Valley and foothill grassland (VFGrs)/clay, serpentine 	15 - 305 meters	List 3
<u>Lilium pardalinum</u> <u>ssp. pitkinense</u>	Liliaceae	perennial bulbiferous herb	Jun-Jul	<ul style="list-style-type: none"> •Cismontane woodland (CmWld) •Meadows and seeps (Medws) •Marshes and swamps (MshSw)(freshwater)/mesic, sandy 	35 - 65 meters	List 1B.1
<u>Limnanthes vinculans</u>	Limnanthaceae	annual herb	Apr-May	<ul style="list-style-type: none"> •Meadows and seeps (Medws) •Valley and foothill grassland (VFGrs) •Vernal pools (VnPIs)/vernally mesic 	15 - 305 meters	List 1B.1
<u>Lupinus tidestromii</u>	Fabaceae	perennial rhizomatous herb	Apr-Jun	<ul style="list-style-type: none"> •Coastal dunes (CoDns) 	0 - 100 meters	List 1B.1
<u>Microseris paludosa</u>	Asteraceae	perennial herb	Apr-Jun(Jul) Months in parentheses are uncommon.	<ul style="list-style-type: none"> •Closed-cone coniferous forest (CCFr) •Cismontane woodland (CmWld) •Coastal scrub (CoScr) •Valley and foothill grassland (VFGrs) 	5 - 300 meters	List 1B.2

<u>Navarretia leucocephala</u> ssp. <u>bakeri</u>	Polemoniaceae	annual herb	Apr-Jul	<ul style="list-style-type: none"> •Cismontane woodland (CmWld) •Lower montane coniferous forest (LCFr) •Meadows and seeps (Medws) •Valley and foothill grassland (VFGrs) •Vernal pools (VnPIs)/mesic 	5 - 1740 meters	List 1B.1
<u>Pleuropogon hooverianus</u>	Poaceae	perennial rhizomatous herb	Apr-Aug	<ul style="list-style-type: none"> •Broadleaved upland forest (BUFr) •Meadows and seeps (Medws) •North Coast coniferous forest (NCFrs)/open areas, mesic 	10 - 671 meters	List 1B.1
<u>Rhynchospora alba</u>	Cyperaceae	perennial rhizomatous herb	Jul-Aug	<ul style="list-style-type: none"> •Bogs and fens (BgFns) •Meadows and seeps (Medws) •Marshes and swamps (MshSw)(freshwater) 	60 - 2040 meters	List 2.2
<u>Rhynchospora californica</u>	Cyperaceae	perennial rhizomatous herb	May-Jul	<ul style="list-style-type: none"> •Bogs and fens (BgFns) •Lower montane coniferous forest (LCFr) •Meadows and seeps (Medws)(seeps) •Marshes and swamps (MshSw)(freshwater) 	45 - 1010 meters	List 1B.1
<u>Rhynchospora capitellata</u>	Cyperaceae	perennial herb	Jul-Aug	<ul style="list-style-type: none"> •Lower montane coniferous forest (LCFr) •Meadows and seeps (Medws) •Marshes and swamps (MshSw) •Upper montane coniferous forest (UCFr)/mesic 	455 - 2000 meters	List 2.2
<u>Rhynchospora globularis</u> var. <u>globularis</u>	Cyperaceae	perennial rhizomatous herb	Jul-Aug	<ul style="list-style-type: none"> •Marshes and swamps (MshSw)(freshwater) 	45 - 60 meters	List 2.1
<u>Sidalcea calycosa</u> ssp. <u>rhizomata</u>	Malvaceae	perennial rhizomatous herb	Apr-Sep	<ul style="list-style-type: none"> •Marshes and swamps (MshSw)(freshwater, near coast) 	3 - 75 meters	List 1B.2
<u>Sidalcea malviflora</u> ssp. <u>purpurea</u>	Malvaceae	perennial rhizomatous herb	May-Jun	<ul style="list-style-type: none"> •Broadleaved upland forest (BUFr) •Coastal prairie (CoPrr) 	15 - 85 meters	List 1B.2
<u>Trifolium amoenum</u>	Fabaceae	annual herb	Apr-Jun	<ul style="list-style-type: none"> •Coastal bluff scrub (CBScr) •Valley and foothill grassland (VFGrs)(sometimes serpentine) 	5 - 415 meters	List 1B.1
<u>Trifolium depauperatum</u> var. <u>hydrophilum</u>	Fabaceae	annual herb	Apr-Jun	<ul style="list-style-type: none"> •Marshes and swamps (MshSw) •Valley and foothill grassland (VFGrs)(mesic, alkaline) •Vernal pools (VnPIs) 	0 - 300 meters	List 1B.2

TABLE 1
SPECIAL STATUS SPECIES OCCURRING IN THE REGION

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	PERIOD OF IDENTIFICATION	POTENTIAL TO OCCUR WITHIN 100 FEET OF PROJECT SITE
PLANTS					
<i>Agrostis blasdalei</i> Blasdale's bent grass	--/--/1B	Along the coast of Mendocino, Marin, Santa Cruz, San Mateo, and Sonoma counties.	Found in coastal bluff scrub, coastal dunes, and coastal prairie; elevations 5 - 150 meters.	May - July	No. Does not occur as far inland as the proposed project.. No suitable habitat on the project site.
<i>Alopecurus aequalis</i> var. <i>sonomensis</i> Sonoma alopecurus	FE/--/1B	Marin and Sonoma counties.	Found in riparian scrub and marshes and swamps; elevations 5 - 365 meters.	May - July	Yes. Refer to Section 3.5.2.
<i>Amorpha californica</i> var. <i>napensis</i> Napa false indigo	--/--/1B	Primarily Marin, Napa, and Sonoma Counties; also Monterey County.	Chaparral, woodland, and openings in broadleaf forest.	April - July	Yes. Refer to Section 3.5.2.
<i>Arctostaphylos bakeri</i> ssp. <i>bakeri</i> Baker's manzanita	--/CR/1B	Sonoma County.	Found in broadleaf upland forest and chaparral, often in serpentine soils and sometimes along roadcuts; 75 to 300 meters.	February - April	Yes. Refer to Section 3.5.2.
<i>Arctostaphylos bakeri</i> ssp. <i>sublaevis</i> The Cedars manzanita	--/CR/1B	Sonoma County.	Found in chaparral and closed-cone coniferous forests in serpentine seeps; elevations 185 to 760 meters.	February - May	No. The project site is between 3 and 165 meters in elevation.
<i>Arctostaphylos densiflora</i> Vine Hill manzanita	--/CE/1B	Sonoma County.	Found in chaparral and in acidic marine sand; elevations 50-120 meters.	February - April	Yes. Refer to Section 3.5.2.
<i>Arctostaphylos stanfordiana</i> ssp. <i>decumbens</i> Rincon manzanita	--/--/1B	Sonoma County.	Chaparral and cismontane woodland; 75 to 370 meters in elevation.	February - April	Yes. Refer to Section 3.5.2.
<i>Blennosperma bakeri</i> Sonoma sunshine	FE/CE/1B	Sonoma County.	Found in wetland areas in grassland and in vernal pools; elevations 10 to 110 meters.	March - May	Yes. Refer to Section 3.5.2.
<i>Brodiaea californica</i> var. <i>leptandra</i> narrow-anthered California brodiaea	--/--/1B	Napa, Lake, and Sonoma Counties.	Chaparral, open broadleaf or coniferous forest, and cismontane woodland, often in serpentine soil; elevations 110-915 meters.	May - July	Yes. Refer to Section 3.5.2.
<i>Calamagrostis crassiglumis</i> Thurber's reed grass	--/--/2	Found in Del Norte, Humboldt, Mendocino, Marin, and Sonoma counties.	Wetland areas in coastal scrub and marshes and swamps; elevations 10 to 45 meters.	May - July	No. Only suitable habitat in the vicinity is Pitkin Marsh, which is not on the project site.

SCIENTIFIC NAME COMMON NAME	FEDERAL/ STATE STATUS	DISTRIBUTION	HABITAT REQUIREMENTS	PERIOD OF IDENTIFICATION	POTENTIAL TO OCCUR WITHIN 100 FEET OF PROJECT SITE
<i>Calochortus raichei</i> The Cedars fairy-lantern	--/--/1B	Sonoma County.	Closed-cone coniferous forest and chaparral in serpentine soil; elevations 200 to 490 meters.	May - August	No. The project site is between 3 and 165 meters in elevation.
<i>Calysegia purpurata ssp. saxicola</i> coastal bluff morning-glory	--/--/1B	Mendocino, Marin, and Sonoma counties.	Coastal dunes, coastal scrub; elevation 15-105 meters.	May - August	No. Only occurs closer to the coast. No suitable habitat on the project site.
<i>Campanula californica</i> swamp harebell	--/--/1B	Mendocino, Marin, Sonoma, and Santa Cruz Counties.	Found in closed-cone forests, North Coast coniferous forests, coastal dune areas, meadows, marshes, and swamps, generally in mesic areas; elevations 1-405 meters.	June - October	Yes. Refer to Section 3.5.2.
<i>Carex albidula</i> white sedge	FE/CE/1B	Sonoma County.	Bogs, fens, marshes, and swamps; elevations 15 to 90 meters.	May - July	No. Only occurs in perennial marshes. Pitkin Marsh is the only perennial marsh in the vicinity.
<i>Carex comosa</i> bristly sedge	--/--/2	In California, North Coast Ranges, Cascade Range, Modoc Plateau, Central Valley, Central Coast, San Francisco Bay Area, and Transverse Ranges.	Wet places, particularly in coastal prairie, marshes and swamps at lake margins, and valley and foothill grasslands; elevations 0 to 625 meters.	May - September	Yes. Refer to Section 3.5.2.
<i>Castilleja uliginosa</i> Pitkin Marsh Indian paintbrush	--/CE/1A	Presumed extinct.	Occurred in freshwater marshes and swamps; elevation 60 meters.	June - July	No. Is presumed extinct and only occurred in Pitkin Marsh.
<i>Ceanothus confusus</i> Rincon Ridge ceanothus	--/--/1B	Known to occur within Lake County and eight quads of project site. Known from southern North Coast Range, especially Sonoma County.	Closed-cone coniferous forest, chaparral, cismontane woodland, in volcanic or serpentine soils; elevations 75 to 1065 meters.	February - June	Yes. Refer to Section 3.5.2.
<i>Ceanothus foliosus var. vineatus</i> Vine Hill ceanothus	--/--/1B	Sonoma County.	Chaparral; elevations 45 to 305 meters.	June - August	Yes. Refer to Section 3.5.2.
<i>Ceanothus purpureus</i> holly-leaved ceanothus	--/--/1B	Found within Napa, Solano, and Sonoma Counties.	Occurs within chaparral and cismontane woodland habitats on rocky, volcanic soil; elevations 120 to 640 meters.	February - June	Yes. Refer to Section 3.5.2.
<i>Chlorogalum pomeridianum var. minus</i> dwarf soaproot	--/--/1B	Colusa, Lake, San Luis Obispo, Sonoma, and Tehama counties.	Occurs on serpentine soil in chaparral habitat; elevations 305 to 1000 meters.	May - August	No. The project site is between 3 and 165 meters in elevation.

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<i>Chorizanthe valida</i> Sonoma spineflower	FE/CE/1B	At one time, occurred in Sonoma and Marin counties along the coast. Now presumed extirpated from Sonoma County.	Occurs in sandy soils in coastal grassland; elevations 10 to 305 meters.	June - August	No. Only occurs closer to the coast, no suitable habitat occurs on the project site.
<i>Clarkia imbricata</i> Vine Hill clarkia	FE/CE/1B	Sonoma County.	Chaparral and valley and foothill grassland in acidic sandy soil; elevations 50 to 75 meters.	March - May	Yes. Refer to Section 3.5.2.
<i>Cordylanthus tenuis</i> ssp. <i>capillaris</i>	FE/CR/1B	Sonoma County.	Found on serpentine soil in closed-cone coniferous forest and in chaparral; elevations 45 to 305 meters.	May - September	Yes. Refer to Section 3.5.2.
Pennell's bird's-beak <i>Delphinium bakeri</i>	FE/CC/1B	Found in Marin and Sonoma counties.	Occurs in broadleaf upland forest, coastal scrub, and valley and foothill grassland on decomposed shale, often in mesic soils; elevation 80 to 305 meters.	March - May	No. No soils derived from shale occur on the project site.
Baker's larkspur <i>Delphinium luteum</i> yellow larkspur	FE/CR/1B	Found in Marin and Sonoma counties.	Occurs in chaparral, coastal prairie, and coastal scrub in rocky soils; elevations 0 to 100 meters.	March - May	No. This species only occurs closer to the coast.
<i>Downingia pusilla</i> dwarf downingia	--/--/2	Known populations from Fresno, Merced, Mariposa, Napa, Placer, Sacramento, San Joaquin, Solano, Sonoma, Stanislaus, Tehama, and Yuba counties.	Valley and foothill grassland (mesic), vernal pools; elevation 1-445 meters.	May - August	Yes. Refer to Section 3.5.2.
<i>Erigeron angustatus</i> narrow-leaved daisy	--/--/1B	Distributed within Napa, Sonoma, and Lake Counties.	Serpentine soils within chaparral habitats.	May - September	No. No chaparral occurs on serpentine soil in the project site.
<i>Erigeron serpentinae</i> serpentine daisy	--/--/1B	Sonoma County.	Found in serpentine soil around seeps and chaparral habitat; elevations 60 to 670 meters.	May - August	No. No serpentine soils occur in the project site over 60 meters elevation.
<i>Erythronium revolutum</i> coast fawn lily	--/--/2	Distributed through the western coasts of Washington and Oregon south through Del Norte, Humboldt, Mendocino, Siskiyou, and Sonoma Counties.	Mesic or stream bank areas in broadleaved upland forest, North Coast coniferous forest, and marshes; elevations 0-1325 meters.	March - July	Yes. Refer to Section 3.5.2.
<i>Fritillaria liliacea</i> fragrant fritillary	--/--/1B	Known populations in Alameda, Contra Costa, Monterey, Marin, San Benito, Santa Clara, San Francisco, San Mateo, Solano, and Sonoma counties.	Cismontane woodland, coastal prairie, coastal scrub, valley and foothill grassland, often in serpentine soils; elevation 3-410 meters.	April - May	Yes. Refer to Section 3.5.2.

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<i>Gilia capitata</i> ssp. <i>totemosa</i> woolly-headed gilia	--/--/1B	Marin and Sonoma counties.	Coastal bluff scrub on rocky outcrops; elevation 15 to 155 meters.	May - July	No. This species only occurs along the coast. No suitable habitat occurs on the project site.
<i>Hespererevax sparsiflora</i> var. <i>brevifolia</i> short-leaved evax	--/--/2	Occurs along the coast of Del Norte, Humboldt, Mendocino, Marin, Santa Cruz, San Francisco, and Sonoma counties.	Found in coastal bluff scrub in sandy soil and in coastal dunes; elevations 0 to 215 meters.	March - June	No. Species only occurs closer to the coast. No suitable habitat occurs on the project site.
<i>Holocarpha macradenia</i> Santa Cruz tarplant	FT/CE/1B	Known to occur in Alameda, Contra Costa, Monterey, Marin, Santa Cruz, and Sonoma counties.	Coastal prairie, coastal scrub, and valley and foothill grassland, often in sandy clay soils; elevations 10 to 220 meters.	June - October	No. Species only occurs closer to the coast or San Francisco Bay.
<i>Horkelia tenuiloba</i> thin-lobed horkelia	--/--/1B	Mendocino, Marin, and Sonoma Counties.	Sandy, mesic openings in broadleaved upland forest, chaparral, and valley and foothill grassland; elevations 50-500 meters.	May - July	Yes. Refer to Section 3.5.2.
<i>Lasthenia burkei</i> Burke's goldfields	FE/CE/1B	Known to occur in Lake, Mendocino, and Sonoma Counties	Occurs in meadows, seeps, vernal pools and other mesic habitats; elevations 15-600 meters	April-June	No. Species only occurs closer to the coast.
<i>Lasthenia macrantha</i> ssp. <i>bakeri</i> Baker's goldfields	--/--/1B	Mendocino, Marin, and Sonoma counties.	Occurs in openings in closed-cone coniferous forests, coastal scrub, meadows, seeps, marshes, and swamps; elevations 60 to 520 meters.	April - October	No. This species only occurs along the coast.
<i>Lasthenia macrantha</i> ssp. <i>macrantha</i> perennial goldfields	--/--/1B	Mendocino, Marin, San Luis Obispo, San Mateo, and Sonoma counties.	Occurs in coastal bluff scrub, coastal dunes, and coastal scrub; elevations 5 to 520 meters.	January - November	No. This species only occurs closer to the coast. No suitable habitat occurs on the project site.
<i>Legenere limosa</i> legenere	--/--/1B	Lake, Napa, Placer, Sacramento, Shasta, San Mateo, Solano, Sonoma, Stanislaus, and Tehama counties.	Vernal pools; elevation 1-880 meters	April-June	No. No vernal pools were observed on the project site.
<i>Leptosiphon jepsonii</i> Jepson's leptosiphon	--/--/1B	Lake, Napa, and Sonoma Counties.	Chaparral and woodland, usually in volcanic soil; elevations 100-500 meters.	April - May	Yes. Refer to Section 3.5.2.
<i>Lessingia arachnoides</i> Crystal Springs lessengia	--/--/1B	Known to occur in San Mateo and Sonoma counties.	Found on serpentine soil, often on roadsides in cismontane woodland, coastal scrub, and valley and foothill grassland; elevations 60 to 200 meters.	July - October	Yes. Refer to Section 3.5.2.

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<i>Lilium pardalinum</i> ssp. <i>pikiniense</i> Pitkin Marsh lily	FE/CE/1B	Sonoma County.	Cismontane woodland, meadows, seeps, marshes, and swamps in mesic, sandy soil; elevations 35 to 65 meters.	June - July	No. This species only occurs in and around Pitkin Marsh. No suitable habitat occurs on the project site.
<i>Limnanthes vincularis</i> Sebastapol meadowfoam	--/--/1B	Napa and Sonoma counties.	Found in meadows, seeps, valley and foothill grassland, and vernal pools, usually in vernal mesic areas; elevations 15-305 meters.	July - August	Yes. Refer to Section 3.5.2.
<i>Lupinus luteus</i> Tidestrom's lupine	FE/CE/1B	Monterey, Marin, and Sonoma counties.	Occurs in coastal dune habitat; elevations 0 to 100 meters.	April - June	No. Species only occurs along the coast. No suitable habitat occurs on the project site.
<i>Microseris paludosa</i> marsh microseris	--/--/1B	Known populations in Mendocino, Monterey, Marin, Santa Cruz, San Francisco, San Luis Obispo, San Mateo, and Sonoma counties.	Closed-cone coniferous forest, cismontane woodland, coastal scrub, valley and foothill grassland; elevation 5-300 meters.	April - June	Yes. Refer to Section 3.5.2.
<i>Monardella villosa</i> ssp. <i>globosa</i> robust monardella	--/--/1B	Outer North Coast Ranges and San Francisco Bay Area.	Oak woodland, chaparral, coastal scrub, grassland, and openings in woodland and chaparral; elevations 100-915 meters.	June - July	Yes. Refer to Section 3.5.2.
<i>Navarretia leucocephala</i> ssp. <i>bakeri</i> Baker's navarretia	--/--/1B	Found in the Western Sacramento Valley and northern Coast Range. Mainly occurs from Mendocino and Glenn counties south to Marin and Solano counties.	Vernal pools, meadows and seeps, montane coniferous forest, grassland, and cismontane woodland; elevations 5-1740 meters.	April - July	Yes. Refer to Section 3.5.2.
<i>Navarretia leucocephala</i> ssp. <i>pleiantha</i> many-flowered navarretia	--/--/1B	Lake and Sonoma counties.	Vernal pools in volcanic ash flow; elevation 30 to 950 meters.	May - June	No. No suitable habitat occurs on the project site.
<i>Pleuropogon hooverianus</i> North Coast semaphore grass	--/CT/1B	Mendocino, Sonoma, and Marin Counties.	Meadows, seeps, and open, mesic areas in broadleaved forest and coniferous forest.	April	Yes. Refer to Section 3.5.2.
<i>Rhynchospora alba</i> white beaked-rush	--/--/2	Known to occur in Lassen, Mendocino, Plumas, Sonoma, and Trinity counties.	Occurs in bogs, fens, and freshwater marshes and swamps; elevations 60 to 2040 meters.	July - August	No. The only suitable habitat in the vicinity is Pitkin Marsh, which is not in the project site.
<i>Rhynchospora californica</i> California beaked-rush	--/--/1B	Butte, Mariposa, Marin, Napa and Sonoma Counties.	Wet areas in coniferous forests, marshes, bogs and seeps; elevations 45-1010 meters.	All Year	No. The only suitable habitat in the vicinity is Pitkin Marsh, which is not in the project site.

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<i>Rhynchospora capitellata</i> brownish beaked-rush	--/--/2	Known occurrences in Butte, Mariposa, Sonoma, Nevada, Tehama, Plumas, and Trinity Counties.	Lower montane coniferous forest, meadows and seeps, marshes and swamps, and upper montane coniferous forests. Elevation ranges 1492-6561 feet.	July-August	No. The project site is between 3 and 165 meters in elevation.
<i>Rhynchospora globularis</i> var. <i>globularis</i> round-headed beaked-rush	--/--/2	Sonoma County.	Marshes and swamps; elevations 45 to 60 meters.	May - November	Yes. Refer to Section 3.5.2.
<i>Sidalcea calycosa</i> ssp. <i>rhizomata</i> Point Reyes checkerbloom	--/--/1B	Mendocino, Marin, and Sonoma counties.	Marshes and swamps (freshwater, near coast); elevation 3 to 175 meters.	April - September	No. No suitable habitat occurs on the project site. This species only occurs closer to the coast.
<i>Sidalcea malviflora</i> ssp. <i>purpurea</i> purple-stemmed checkerbloom	--/--/1B	Found in Mendocino, Marin, San Mateo, and Sonoma counties.	Broadleaved upland forest and coastal prairie; elevation 15 to 85 meters.	May - June	No. This species only occurs closer to the coast.
<i>Streptanthus glandulosus</i> var. <i>hoffmanii</i> second jewelflower	--/--/1B	Known to occur in Sonoma County.	Occurs in chaparral, cismontane woodland, and valley and foothill grassland in rocky (and often serpentine) soils; elevation 120 - 475 meters.	March - July	Yes. Refer to Section 3.5.2.
<i>Streptanthus morrisonii</i> ssp. <i>elatus</i> Three peaks jewelflower	--/--/1B	Known to occur in Lake, Napa, and Sonoma counties.	Occurs in serpentine soils in chaparral habitat; elevation 90-815 meters.	June - September	No. No suitable habitat occurs on the project site.
<i>Streptanthus morrisonii</i> ssp. <i>hirtiflorus</i> Dorr's Cabin jewelflower	--/--/1B	Known to occur in Sonoma County.	Occurs in serpentine soils in chaparral and closed-cone coniferous forests; elevation 185 to 820 meters.	June	No. No suitable habitat occurs on the project site.
<i>Streptanthus morrisonii</i> ssp. <i>morrisonii</i> Morrison's jewelflower	--/--/1B	Known to occur in Sonoma County.	Occurs in rocky, serpentine, talus in chaparral; elevation of 120 to 585 meters.	May - September	No. No suitable habitat occurs on the project site.
<i>Trifolium amoenum</i> showy Indian clover	FE/--/1B	San Francisco Bay Area and southern North Coast Ranges.	Grassland and coastal bluff scrub, sometimes in serpentine soil.	March - May	Yes. Refer to Section 3.5.2.
<i>Trifolium buckwestiorum</i> Santa Cruz clover	--/--/1B	Known to occur in Mendocino, Monterey, Santa Cruz, and Sonoma Counties.	Occurs in the transition zones between broadleaf forest or cismontane woodland and grassland; elevations 105-610 meters.	April - October	Yes. Refer to Section 3.5.2.
<i>Trifolium depauperatum</i> var. <i>hydrophilum</i> saline clover	--/--/1B	Known populations in Alameda, Monterey, Napa, San Benito, Santa Clara, San Luis Obispo, San Mateo, Solano, and Sonoma counties.	Occurs in marshes and swamps; mesic/alkaline areas in valley and foothill grassland; and in vernal pools; elevations 0-300 meters.	April - June	Yes. Refer to Section 3.5.2.

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ANIMALS					
Invertebrates					
<i>Speyeria myrtilae</i> Myrtle's silverspot	FE/-/--	Occurs from Sonoma County south to San Francisco County.	Occurs in coastal terrace prairie, coastal bluff scrub, and adjacent grassland habitats within three miles of the coast; elevation 0 to 250 meters.	June - September	No. This species only occurs closer to the coast.
<i>Syncaeris pacifica</i> California freshwater shrimp	FE/CE/--	Coastal streams up to 380 feet above sea level.	Found in low gradient, perennial coastal streams. Streams typically 1-3 feet deep, with exposed live roots along undercut banks. Streams also contain overhanging debris or stream vegetation.	All year	Yes. Refer to Section 3.5.2.
Amphibians					
<i>Ambystoma californiense</i> California tiger salamander	FT/CSC/--	Western California from Sonoma County in the north to Santa Barbara County in the south.	Breeds in vernal pools and ponds of grassland and open woodland of low hills and valleys. Will utilize burrows for refuge.	November-February (adults) March 15-May15 (larvae)	No. Refer to Section 3.5.2.
<i>Rana aurora draytonii</i> California red-legged frog	FT/CSC/--	Currently found in coastal drainages from Mendocino County south to Baja California, Mexico. Range extends from the bay area and the central coast also along the Sierra Nevada Range within the remaining distribution of the species, only isolated populations have been documented in the Sierra Nevada, northern Coast, and northern Transverse ranges. Believed to be extirpated from the southern Transverse and Peninsular ranges, but still present in Baja California, Mexico.	Lowlands and foothills in or near permanent or late-season sources of deep water with dense, shrubby, or emergent vegetation.	All Year	Yes. Refer to Section 3.5.2.
<i>Rana boylei</i> foothill yellow-legged frog	--/CSC/--	From Santiam River, Marion County, Oregon, south through the Coast Ranges and western slope of the Cascade and Sierra Nevada Mountains, to San Gabriel River, Los Angeles County, California.	Inhabits rocky streams in a variety of habitats including woodlands, riparian, coastal scrub, chaparral, and wet meadows. Rarely encountered far from permanent water sources.	March - May	Yes. Refer to Section 3.5.2.
Reptiles					
<i>Emys marmorata</i> <i>marmorata</i> northwestern pond turtle	--/CSC/--	In California, primarily north of the San Francisco Bay Area and west of the Sierra Nevada Range.	Ponds, marshes, rivers, streams, and irrigation ditches with aquatic vegetation. Requires basking sites and suitable upland habitat for egg laying. Nest sites most often characterized as having gentle slopes (<15%) with little vegetation or sandy banks. Elevations range from 0 to approximately 1,525 meters.	All Year	Yes. Refer to Section 3.5.2.

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Birds					
<i>Brachyramphus marmoratus</i> marbled murrelet	FT/CE/--	Occurs along the coast from Del Norte County south to Santa Barbara County.	Forages in the Pacific Ocean. Roosts in forests dominated by redwood and Douglas-fir. Nests in dense, mature forests of redwood and Douglas-fir.	All Year	No. No suitable habitat for this species exists on the project site.
<i>Cerorhinca monocerata</i> rhinoceros auklet	--/CSC/--	Occurs along the coast from Alaska to southern California.	Feeds in the Pacific Ocean, and roosts in rocky shoreline habitats. In California, nests on offshore islands	All Year	No. No suitable habitat occurs on the project site.
<i>Charadrius alexandrinus nivosus</i> western snowy plover	FT/CSC/--	Occurs along the California coast and inland near the Salton Sea, Mono Lake, and alkali lakes.	Found on sandy marine and estuarine shores, nest in these areas from April-August. Can inhabit inland salt ponds and lakes. Require sandy, gravelly, or friable soil substrates for nesting.	All year	No. No suitable habitat occurs on the project site.
<i>Fratercula cirrhata</i> tufted puffin	--/CSC/--	In the summer, occurs along the coast from California to Alaska. Winters on islands offshore.	Feeds in the Pacific Ocean. Usually nests on coastal offshore islands, but occasionally nests on coastal cliffs.	May - September	No. Species occurs closer to the coast.
<i>Haliaeetus leucocephalus</i> bald eagle	FT/CE	Nests in Butte, Lake, Lassen, Modoc, Plumas, Shasta, Siskiyou, Humboldt, and Trinity Counties. Winters throughout most of California.	Forested areas, relatively close (usually less than 2 km) to water that offers foraging opportunities.	All year	No. No records of this species exist within 10 miles of the project site. Species does not nest as far south as the proposed project.
<i>Pandion haliaetus</i> osprey	--/CSC/--	In California, breeds from Cascade Ranges south to Lake Tahoe, and along the North Coast Ranges south to Marin County.	Uses large trees, snags, and dead-topped trees in open forest habitats for cover and nesting. Requires open, clear waters for foraging such as rivers, lakes, reservoirs, bays, estuaries, and surf zones.	All Year	Yes. Refer to Section 3.5.2.
<i>Pelecanus occidentalis californicus</i> California brown pelican	FE/CE/--	Estuarine, marine subtidal, and marine pelagic waters along the California coast.	Usually rests on water or inaccessible rocks (either offshore or on mainland), but also uses mudflats, sandy beaches, wharfs, and jetties.	June - November	No. This species only occurs closer to the coast.
<i>Riparia riparia</i> bank swallow	--/CT/--	In California, primarily nests from far Siskiyou, Shasta and Lassen Counties, south along the Sacramento River to Yolo County. Also nests locally across much of state.	Typically nests in burrows in vertical banks, cliffs, and bluffs. Nest sites are typically in alluvial, friable soil, and are typically found near a water source.	April - July	No. No suitable habitat occurs on the project site.

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<i>Strix occidentalis caurina</i> Northern spotted owl	FT/--/--	British Columbia to northwestern California south to San Francisco.	Resides in dense, old-growth, multi-layered mixed conifer, redwood, and Douglas-fir habitats, from sea level up to approximately 2300 m (0-7600 ft). In southern California, nearly always associated with oak and oak-conifer habitats.	All year.	No. This species requires old-growth, undisturbed habitat, which does not occur on the project site.
Fish					
<i>Eucyclogobius newberryi</i> Tidewater goby	FE/CSC/--	Occurs along the coast through most of California.	Found in brackish coastal lagoons and at the lower reaches of rivers and coastal streams.	All year	No. This species only occurs closer to the coast.
<i>Hysterocarpus traskii</i> pomo Russian River tule perch	--/CSC/--	Russian River and its tributaries	Clear, flowing water, abundant cover (e.g., aquatic vegetation, submerged logs), and deep (>1 meter) pools.	All Year	Yes. Refer to Section 3.5.2.
<i>Lavinia symmetricus</i> parvipinnis Gualala roach	--/CSC/--	Gualala River watershed.	Found cool headwater streams of the Gualala River watershed.	All year	No. The project site is in the Russian River watershed. The species labeled "Gualala roach" in the 5-mile Radius Map is likely a Russian River roach that was misidentified.
<i>Oncorhynchus kisutch</i> Coho salmon – central California coast	FE/CE/--	Central California Coast ESU spawns in short coastal drainages and lower sections of larger drainages from Punta Gorda, Humboldt County, to the San Lorenzo River, Santa Cruz County (including the San Francisco Bay basin).	Spawning: streams with pool and riffle complexes. For successful breeding, require cold water and gravely stream bed.	November - February	Yes. Refer to Section 3.5.2.
<i>Oncorhynchus mykiss</i> central California coastal steelhead	FT/CSC/--	Central California Coastal ESU spawns in drainages from the Russian River basin, Sonoma and Mendocino Counties, to Soquel Creek, Santa Cruz County (including the San Francisco Bay basin, but not the Sacramento and San Joaquin Rivers or their tributaries).	Found in cool, clear, fast-flowing permanent streams and rivers with riffles and ample cover from riparian vegetation or overhanging banks.	All Year	Yes. Refer to Section 3.5.2.
<i>Oncorhynchus tshawytscha</i> California coastal Chinook salmon	FT/--/--	California Coastal ESU spawns in coastal drainages from Redwood Creek in Humboldt County to the Russian River in Sonoma and Mendocino Counties	Spawning: streams with pool and riffle complexes. For successful breeding, require cold water and gravely stream bed.	Consult Agency	Yes. Refer to Section 3.5.2.

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Mammals					
<i>Antrozous pallidus</i> pallid bat	--/CSC/--	Much of western North America, from central Mexico to British Columbia. In California, throughout most of state.	Especially common in open lowland areas, generally below 2,000 m. Roosts in cliffs, abandoned buildings, bird boxes, and under bridges.	All Year	Yes. Refer to Section 3.5.2.
<i>Arborimus pomo</i> Sonoma tree vole (CA red tree vole)	--/CSC/--	Distributed along the North Coast from Sonoma Co. north to the Oregon border, being more or less restricted to the fog belt.	Occurs in old-growth and other forests, mainly Douglas-fir, redwood, and montane hardwood-conifer habitats. Generally found in areas with little human disturbance.	All year (nocturnal)	No. The project site is too disturbed and contains too much human activity.
<i>Taxidea taxus</i> American badger	--/CSC/--	Found throughout most of California in suitable habitat.	Suitable habitat occurs in the drier open stages of most shrub, forest, and herbaceous habitats with friable soils. Badgers are generally associated with treeless regions, prairies, park lands, and cold desert areas.	All Year	No. No suitable habitat occurs on the project site.

APPENDIX E

CULVERTS OCCURRING ALONG THE PROPOSED PIPELINE ALIGNMENTS

survey date	GPS label	culvert description	drainage description	habitat	vegetation in and around drainage	potential USACE jurisdiction	CDFG riparian habitat
1/9/2007	a1	concrete storm drain	surface flow goes to ditch along E side of road	rural residential	wetland ~7 yards west of road; ditch dominated by blackberry	No	No
1/9/2007	a2	metal culvert 2 ft wide, 1 ft below street	roadside ditch, ephemeral	ruderal/dev eloped	northern point of wetland to the west; roadside ditch dominated by blackberry and grass species	Yes	No
1/9/2007	a3	3'x2' metal grate leads to 18" concrete culvert 4' below road	none; drain takes surface water to Fife Creek along side of road	ruderal/dev eloped	riparian habitat dominated by willow parallels road	No	No
1/9/2007	a4	18" metal culvert half silted in, ~4' under road	ephemeral roadside ditch on E; Fife Creek (perennial drainage with 3 feet of water) on W	ruderal/dev eloped	culverted ditch has no vegetation; Fife Creek has willow riparian habitat	Yes	No
1/9/2007	a5	18" metal culvert in concrete box, 2" under road	cement-lined ephemeral drainage on E; discharges to Fife Creek on W	ruderal/dev eloped	culverted ditch has no vegetation; Fife Creek has willow riparian habitat	Yes	No
1/9/2007	a6	3' concrete culvert, 3' under road	roadside ditch, ephemeral	ruderal/dev eloped	various grass species, California poppy, and wild radish	Yes	No
1/9/2007	a7	concrete bridge, 20 yds long, 15' high	creek 8' wide, water 6" deep	ruderal/dev eloped	California bay forest riparian corridor in developed area	Yes	Yes
1/9/2007	a8	metal culvert 18" wide, 3" below road	ephemeral	ruderal/dev eloped	various grass species, surrounded by mixed evergreen forest to the north	Yes	No
1/9/2007	a9	on N side of road: metal culvert, 2' wide, 2" below surface of road; on S side of road: two metal culverts, 2' wide and 2" below surface of road	ditch between houses leading to culvert 1; drainage to culvert 2 unknown (on private property)	ruderal/dev eloped	various grass species	Yes	No
1/9/2007	a10	2' metal culvert, 2" under road	ephemeral	ruderal/dev eloped	none in drainage; surrounding trees are Douglas-fir, madrone, and redwood	Yes	No
9/12/2006	d1	24" culvert,	2' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d2	18" culvert,	no defined channel	rural residential	none in drainage; surrounding trees are redwood	No	No
9/12/2006	d3	18" culvert,	2' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d4	18" culvert,	2' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d5	36" culvert,	3' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d6	24" culvert,	2' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d7	36" culvert,	3' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d8	30" culvert,	3' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d9	24" culvert,	no defined channel	rural residential	none in drainage; surrounding trees are redwood	No	No
9/12/2006	d10	culvert covered by ivy	4' ephemeral channel on river side of road only	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d11	42" culvert,	4' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d12	36" culvert,	4' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d13	36" culvert,	3' ephemeral channel	rural residential	none in drainage; surrounding trees are redwood	Yes	No
9/12/2006	d14	24" culvert at bottom of draw,	no defined channel within 100' of center line	rural residential	none in drainage; surrounding trees are redwood	No	No

9/12/2006	d15	bridge, 2 lanes wide, ~80 ft long	Hulbert Creek, water 2 ft deep	rural residential	bay trees along creek; other trees include redwood and maple	Yes	Yes
1/9/2007	d16	concrete bridge, 180 ft across, 30 ft high	creek 4 ft wide; water 6 inches deep	rural residential	bay trees along creek; other trees included redwood and maple	Yes	Yes
1/9/2007	d17	concrete culvert, 4 ft wide	creek 1.5 feet wide, water 1 inch deep	rural residential	surrounded by redwood forest with bay along drainages; understory dominated by ivy	Yes	Yes
1/9/2007	d18	can't see culvert, behind fence on private property	creek 4 ft wide, 1 ft deep	rural residential	surrounded by redwood forest with bay along drainages; banks dominated by blackberry	Yes	Yes
1/9/2007	d19	storm drain, 3 ft long, concrete	none; surface flow to storm drain	ruderal	adjacent to Fife Creek with willow riparian scrub	No	No
1/9/2007	d20	bridge 120 ft long, 30 ft high, 3 lanes wide	Fife Creek 5 ft wide, 6 in. deep	bay forest	some redwoods in the upland, but is a bay forest riparian corridor with banks dominated by blackberry	Yes	Yes
1/9/2007	d21	potential culvert, covered by blackberries	intermittent, unable to see characteristics	willow riparian scrub	drainage dominated by blackberry, enters willow riparian scrub on S side of road; some bay trees	Yes	No
1/9/2007	d22	concrete box culvert 4' tall, 15' below road	creek, 2' wide, 3" deep water	willow riparian scrub	willows and some trees	Yes	Yes
1/9/2007	d23	plastic culvert 2' wide, 4' below road	ephemeral drainage 1' wide	bay forest	no wetland vegetation in drainage, but is surrounded by bay trees	Yes	No
1/9/2007	d24	cement culvert 2' wide, 6' below road	ephemeral channel 2' wide	bay forest	no wetland vegetation in drainage, but is surrounded by bay trees	Yes	No
1/9/2007	d25	metal culvert 2' wide, 18" below road	ephemeral, 1' wide	willow riparian scrub	various grass species in drainage; willow riparian scrub to the South	Yes	No
1/9/2007	d26	cement box culvert, opening is 18" wide, top of box 2' below road	ephemeral, 1' wide	willow riparian scrub	various grass species in drainage; willow riparian scrub to the South	Yes	No
1/9/2007	d27	cement box culvert, opening is 2' wide, top of box 1' below road	roadside ditch, ephemeral, 1' wide	willow riparian scrub	no vegetation in drainage; willow riparian scrub to the South	Yes	No
1/9/2007	d28	culvert above ground, 1' wide x 6" tall	collects surface runoff and discharges to ephemeral roadside ditch	willow riparian scrub	no vegetation in drainage; willow riparian scrub to the South	No	No
1/9/2007	d29	concrete culvert 3' wide, 10' below road	roadside ditch, ephemeral	agricultural	no vegetation in drainage near road, ponded water at mouth of culvert	Yes	No
1/9/2007	d30	potential culvert or pipe	agricultural canal on Korbelt property	agricultural	no vegetation near road	Yes	No
1/9/2007	d31	10x10 concrete box culvert (bridge), 2" below road	creek 2' wide and 2" deep	mixed evergreen forest	narrow riparian corridor of Douglas-fir, redwood, and maple to East; vineyard to West	Yes	Yes
1/9/2007	d32	metal culvert 6" wide with 2" rubber hoses inside, 1' below road	none visible	mixed evergreen forest	no riparian or wetland vegetation; large redwoods near road	No	No
1/9/2007	d33	18" concrete culvert, 10' below road; a metal pipe with valves and plastic pipes go through culvert	no drainage visible	ruderal/dev eloped	sparse upland vegetation	No	No
1/9/2007	d34	above-ground, 6" metal culvert	collects street runoff; discharges to ephemeral roadside ditch	ruderal/dev eloped	no vegetation in ditch; roadside wetland has sedge, pampas grass, cut-leaved geranium, and mullein	No	No
1/9/2007	d35	concrete culvert 2' wide, 2' below road	ephemeral drainage on North goes to wetland on South side of road	ruderal/dev eloped	various facultative herbaceous species	Yes	No

1/9/2007	d36	concrete culvert 2' wide, 3' below road	ephemeral drainage	ruderal/dev eloped	some wetland vegetation (sedge, blackberries)	Yes	No
1/9/2007	d37	2' concrete culvert 1' under road; two 2" plastic pipes run through it	none	ruderal/dev eloped	some wetland vegetation (sedge, blackberries)	No	No
1/9/2007	d38	metal utility pipe 1' wide, 4' below surface of road	none	ruderal/dev eloped	none	No	No
1/9/2007	d39	3' wide metal culvert with concrete box, 6' below road	intermittent drainage	mixed evergreen	habitat forms a riparian corridor with redwoods and bay trees; vegetation includes blackberry and self-heal	Yes	Yes
1/9/2007	d40	above-ground metal culvert	discharges surface runoff to roadside ditch	ruderal	various grass species	No	No
1/9/2007	d41	3' wide metal culvert with concrete bags surrounding, 5' below road	intermittent drainage	bay forest	sparse upland vegetation	Yes	No
1/9/2007	d42	18" metal culvert with cement bags and box, 5' below road	ephemeral, 1' wide	bay forest	sparse upland vegetation in drainage; riparian willow scrub to the South; bay trees and madrones near road	Yes	No
1/9/2007	d43	metal grate, 3' drop to a 2' concrete culvert	storm drain collects surface water and discharges it to an ephemeral, 18" wide drainage on opposite side of road	mixed woodland	sparse upland vegetation in drainage; oak trees near road	No	No
1/9/2007	d44	above-ground culvert 6"x1', metal	collects surface runoff and discharges it to the Russian River	riparian willow scrub	riparian habitat dominated by willow	No	No
1/9/2007	d45	5' tall, 6' wide cement box culvert, 2' below road	4' wide drainage ditch, intermittent	mixed woodland to North, vineyard to South	facultative wetland species such as <i>Rumex crispus</i>	Yes	No
1/9/2007	d46	grate with 18" metal culvert 1' below road	collects surface runoff and discharges it to the Russian River on opposite side of road	mixed evergreen	riparian willow scrub bordering South side of road	No	No
1/9/2007	d47	bridge 50' tall, 100 yds wide, slight curve	creek 2' wide, 3" deep	rural residential	some bay trees along creek, but no significant riparian vegetation; creek bed is cobbles; redwoods and bay trees close to road	Yes	Yes
1/9/2007	d48	Russian River bridge, >100 yds long, 50' tall	Russian River	willow riparian scrub	willow scrub doesn't occur in the area immediately around the bridge; the banks are steep with houses built on either side of the bridge; bay trees and redwoods near the road	Yes	Yes
1/9/2007	d49	3' concrete culvert with concrete box, 1' below road	ephemeral drainage, no visible bed/bank, overgrown with ivy	residential	drainage dominated by blackberry and ivy; redwoods near the road	Yes	No
1/9/2007	d50	metal great with a 2' metal culvert 1' below road	collects surfact runoff and culverts it under road	rural residential	a steep slope up to the South of the road; riparian willow scrub to the North of road	No	No
1/9/2007	d51	bridge	Green Valley Creek	riparian willow scrub	bay trees along creek and willow scrub along Russian River; bridge already has pipe attached to it	Yes	Yes
5/30/2006	dirt road 1	5'x6' concrete culvert, 6" below surface	perennial; ponds at mouths of culvert: 5' deep, 6' wide; drainage 4' deep, 7' wide	mixed evergreen forest	bay tress along creek; redwoods in upland	Yes	Yes
1/10/2007	dr2	m3' wide metal culvert 6" below road	3' wide ephemeral drainage	mixed evergreen forest	some ferns along drainage, but no appreciable wetland vegetation; large trees near road	Yes	No

1/10/2007	dr3	18" wide metal culvert 3" below road	5' wide ephemeral drainage	mixed evergreen forest	no wetland vegetation in drainage, but is surrounded by trees	Yes	No
1/10/2007	dr4	1' wide metal culvert, 3" below road	no drainage, just rock face	mixed evergreen forest	no vegetation in drainage; large bay trees close to road	Yes	No
1/10/2007	dr5	18" wide metal culvert 2' below road	no bed or bank visible; culvert pipe extends ~6 ft down hillside	mixed evergreen forest	no vegetation in drainage; trees close to road	No	No
1/10/2007	dr6	18" wide metal culvert, 4" below road	no drainage beyond 2' from culvert mouth	mixed evergreen forest	broom in drainage, no wetland species	No	No
1/10/2007	dr7	18" wide metal culvert, 1' below road	2' wide ephemeral drainage directed into 3' wide ditch uphill; 2' wide ephemeral drainage downhill	mixed evergreen forest	no vegetation in drainage; trees close to road	Yes	No
1/10/2007	dr8	2' wide metal culvert, 1' deep uphill, 8' deep downhill	ephemeral drainage 1' wide, 6' wide at mouth of culvert	mixed evergreen forest	no vegetation in drainage; trees close to road	Yes	No
1/10/2007	dr9	18" wide metal culvert, 6" deep	roadside ditch, <1" water, 3' wide	mixed evergreen forest	no vegetation in drainage	Yes	No
1/10/2007	dr10	1' wide metal culvert, 18" below road	roadside ditch uphill, no channel downhill, no water	mixed evergreen forest	no vegetation in drainage	Yes	No
1/10/2007	dr11	1' wide metal culvert 1' below road	3' wide ephemeral drainage	mixed evergreen forest	no vegetation in drainage; trees close to road	Yes	No
1/10/2007	dr12	2' wide plastic culvert, 18" below road	3' wide intermittent drainage, <1" deep water uphill, 3' deep at mouth of culvert downhill, 2" deep in drainage downhill	wetland in mixed evergreen	wetland vegetation bordering drainage; looks like a water pipe under the road is leaking into the drainage	Yes	No
1/10/2007	dr13	1' wide plastic culvert 1' below road	wetland swale to the South; ponded wetland to the North	mixed evergreen forest	wetland vegetation on either side of road	Yes	No
5/31/2006	gv hg road	box culvert under Harrison Grade Road	intermittent drainage	mixed evergreen forest	some bay trees along drainage but no significant riparian vegetation; creek bed is gravel	Yes	No
5/31/2006	gv1	3' culvert	intermittent drainage, 1" deep	mixed woodland to the West; wetland to the East	Equisetum in the drainage; bed has gravel	Yes	No
5/31/2006	gv2	2' plastic culvert, 1' below surface of road	intermittent drainage	mixed woodland to the West; wetland to the East	large, undisturbed wetland to the east	Yes	No
5/31/2006	gv3	3' concrete culvert	not visible, dominated by blackberry	mixed woodland to the West; wetland to the East	feeds into large wetland to east	Yes	No
5/31/2006	gv4	12" metal culvert	ephemeral drainage	open woodland to West; wetland to East	mixture of wetland and grass species in drainage	Yes	No
5/31/2006	gv5	24" metal culvert, 10' below surface of road	ephemeral drainage 2' wide, 6" deep	mixed evergreen forest	no vegetation in drainage; bed has cobbles; redwoods near road	Yes	No

5/31/2006	gv6	12" metal culvert, 3' below surface of road	ephemeral drainage 1' wide, 6" deep	mixed evergreen forest	no vegetation in drainage; redwoods near road	Yes	No
5/31/2006	gv7	12" metal culvert 2' below surface of road	ephemeral drainage 1' wide	mixed evergreen forest	no vegetation in drainage	Yes	No
5/31/2006	gv8	24" metal culvert, 3' below surface of road	intermittent drainage 2' wide	redwood forest	no vegetation in drainage; one side of culvert is silted shut, with water ponding on the other side	Yes	No
5/31/2006	gv9	12" metal culvert, 3' below surface of road	ephemeral drainage	mixed evergreen forest	no vegetation in drainage	Yes	No
5/31/2006	gv10	12" metal culvert, 2' below surface of road	ephemeral drainage	mixed evergreen forest	no vegetation in drainage	Yes	No
5/31/2006	gv11	74"x72" (6'x6') metal culvert, 1' below road	ephemeral	mixed evergreen forest	no vegetation in drainage or riparian vegetation; bed has cobbles	Yes	No
5/31/2006	gv12	4x5 cement pipe culvert	intermittent, 3' wide, water is 2" deep	mixed evergreen forest	no vegetation in drainage; pool at culvert mouth	Yes	No
5/31/2006	gv13	4' metal culvert, 3' below surface of road	intermittent, 3' wide, water is 3-4" deep	mixed evergreen forest/ rural residential	maples next to road and along drainage	Yes	No
5/30/2006	gv 14	24" culvert by 20 foot bridge (road doesn't cross bridge)	ephemeral, 1' wide	mixed woodland	poison oak, alder; no riparian vegetation	Yes	No
5/30/2006	bridge 1	bridge, 40' long, 2 lanes wide	Green Valley Creek	mixed woodland	riparian corridor of Populus sp. and maple	Yes	Yes
5/31/2006	gv15	3' metal culvert 18" below road	Atascadero Creek (perennial), 4' wide, water 6" deep	ruderal/dev eloped	in drainage: blackberry, poison oak, and thimbleberry; next to road: maple trees (riparian corridor)	Yes	Yes
5/31/2006	gv16	n/a	collects surface run-off from road	agricultural	none	No	No
5/31/2006	gv17	n/a	collects surface run-off from road	agricultural	none	No	No
5/31/2006	gv18	n/a	collects surface run-off from road	agricultural	none	No	No
5/31/2006	hwy116-1	6'x5' box culvert, 4' below surface of bridge	intermittent, 4' wide, water is 3" deep and flowing	redwood forest	no vegetation in drainage; bed is cobbles; redwoods near road	Yes	No
5/31/2006	hwy116-2	bridge 20' high, 40' long, 2 lanes wide	perennial 4' wide, 6" deep	rural residential	blackberry in creek, narrow riparian corridor; cobbles in bed	Yes	Yes
1/9/2007	lagrd1	36" metal culvert 6" below road	1' ephemeral channel	rural residential	no vegetation in drainage	Yes	No
3/1/2007	M1	2' metal culvert 6" below road	intermittent 1' wide	mixed evergreen forest	no vegetation in drainage	Yes	No
3/1/2007	M2	covered in blackberries, 1' below road	intermittent 1' wide	bay forest	drainage dominated by blackberry	Yes	No
3/1/2007	M3	1' cement culvert 6" below road	intermittent 1' wide, water is 1-2" deep	bay forest	drainage dominated by blackberry	Yes	No
3/1/2007	M3	1' cement culvert 6" below road	intermittent 1' wide, water is 1-2" deep	bay forest	no vegetation in drainage	Yes	No
3/1/2007	M4	1' cement culvert 1' below road	ephemeral 1' wide	bay forest	no vegetation in drainage	Yes	No
3/1/2007	M5	18" cement culvert, 2' below road	intermittent 1' wide, water is 1-2" deep	mixed evergreen forest	no vegetation in drainage	Yes	No
3/1/2007	M6	1' cement culvert , 2.5' below road	intermittent, 1' wide, water is 1-3" deep	mixed woodland	no vegetation in drainage	Yes	No
3/1/2007	M7	18" metal culvert 6" below road	intermittent, 18" wide, water is 2" deep	bay forest	no vegetation in drainage	Yes	No
3/1/2007	M8	1' metal culvert 6" below road	intermittent, 1' wide, water is 1-2" deep	mixed woodland	no vegetation in drainage	Yes	No
3/1/2007	M9	18" metal culvert 18" below road	intermittent, 1' wide, water is 1" deep	mixed woodland	no vegetation in drainage	Yes	No

3/1/2007	M10	2' cement culvert 5' below road	perennial 4' wide, water is 6" deep	mixed woodland	bay forest along creek	Yes	Yes
3/1/2007	M11	1' cement culvert 1' below road	intermittent, 1' wide, water is 2" deep	bay forest	no vegetation in drainage	Yes	No
3/1/2007	M12	3' metal culvert 6" below road	ephemeral 6" wide, water is <1" deep	agricultural	no vegetation in drainage	Yes	No
3/1/2007	M13	3' cement culvert 1' below road	connects two wetlands (intermittent)	agricultural	the culvert drains a wetland on the West into a wetland on the East, which then drains into Green Valley Creek	Yes	No
3/1/2007	M14	2' cement box culvert 1' below road	intermittent 1' wide, water is 2-3" deep	agricultural	drainage in chennelized in vineayrd to west, no riparian vegetation	Yes	No
3/1/2007	M15	box culvert 4' high, 3' wide, 3' below road	intermittent, 3' wide, water is 4" deep	agricultural	some wetland vegetation; drainage is channelized in vineyard	Yes	No
3/1/2007	M16	1' cement culvert 1' below road	ephemeral, 6" wide	agricultural	no vegetation in drainage; East of road is a steep slope down to a wetland	Yes	No
3/1/2007	M17	1' cement culvert 2' below road	intermittent, 1' wide, water is 2" deep	mixed woodland	no vegetation in drainage	Yes	No
3/1/2007	M18	2' metal culvert 3' below road	intermittent, 2' wide, 3' 4" deep	rural residential	no vegetation in drainage	Yes	No
3/1/2007	M19	bridge, ~60 yds long, 20 ft above creek	perennial, 40 yds wide	rural residential	willow scrub	Yes	Yes
5/31/2006	mc1	bridge on Mays Canyon ~25-foot drop	perennial; unable to distinguish characteristics due to dense vegetation	rural residential	dense riparian vegetation; redwoods border road	Yes	Yes
5/30/2006	mc2	12" steel culvert 3" below the surface of the road	ephemeral	redwood forest	none	Yes	No
5/30/2006	mc3	12" steel culvert 6" below surface with a plastic pipe above it	ephemeral	redwood forest	none	Yes	No
5/30/2006	mc4	3'x3' concrete culvert 1' below surface of road	intermittent	redwood forest	facultative wetland plants such as forget-me-nots	Yes	No
5/30/2006	mc5	potential 12" culvert	ephemeral	redwood forest	surrounded by poison oak	Yes	No
5/30/2006	mc6	5'x4' steel pipe culvert, 3' below surface of road	intermittent	redwood forest	facultative plants such as forget-me-nots, redwood sorrel, and poison oak	Yes	No
5/30/2006	mc7	12" steel pipe, 6" below surface	ephemeral	redwood forest	none	Yes	No
5/30/2006	mc8	4'x5' concrete culvert, 2" below surface	intermittent	redwood forest	facultative plants such as forget-me-nots, redwood sorrel, and poison oak	Yes	No
5/30/2006	mc9	24" steel culvert, 2' below surface	ephemeral	redwood forest	none	Yes	No
5/30/2006	mc10	24" steel culvert, 2" below surface	intermittent, 3' wide, <1" deep	redwood forest	sparse poison oak, sword fern, and grass species	Yes	No
1/9/2007	riverrd1	48" metal culvert 8' below road	3' intermittent channel, water is 3" deep	rural residential	riparian corridor of willows and blackberry	Yes	Yes
1/9/2007	riverrd2	18" metal culvert, 8' below road	3' intermittent channel	S: rural residential; N: pasture	riparian corridor of willows and blackberry	Yes	Yes
1/9/2007	riverrd3	24" metal culvert 1' below road	two 3' intermittent channels with water	S: rural residential; N: pasture	wetland (Carex sp.) vegetation and riparian (willow)	Yes	Yes
1/9/2007	riverrd4	42" metal culvert 10' below road	S: 3' roadside ditch, intermittent; N: 6' channel, perennial	vineyard	no riparian vegetation to the South; mix of riparian and upland vegetation to the North	Yes	Yes
1/9/2007	riverrd5	36" metal culvert 10' below road	3' ditch on south, channel on north	vineyard	dominated by blackberry	Yes	No
1/9/2007	riverrd6	36" metal culvert in cement box 8' below road	S: 2' roadside ditch; N: 5' channel	S: rural residential; N: vineyard	a mixture of upland and wetland vegetation	Yes	No

1/9/2007	riverrd7	2' metal culvert in cement box 7' below road	S: 2' intermittent ditch; N: channel dissipates	S: mixed woodland; N: vineyard	no wetland or riparian vegetation; channel dissipates into vineyard to the North	Yes	No
1/9/2007	riverrd8	18" metal culvert 4' below road	S: 2' intermittent ditch; N: channel dissipates	S: mixed woodland; N: vineyard	no wetland or riparian vegetation; channel dissipates into vineyard to the North	Yes	No
1/9/2007	riverrd9	3' concrete culvert 8' below road	S: 4' ditch; N: opens into riparian channel	S: rural residential	to the South the channel is a roadside ditch with no wetland vegetation; to the North the drainage is culverted to 100 feet from the road, then develops riparian vegetation	Yes	No
1/9/2007	riverrd10	60" metal culvert 10' below road	S: 5' intermittent; N: 8' perennial	mixed evergreen	riparian habitat of willow and bay trees to the North of the road; redwoods near road	Yes	Yes
1/9/2007	riverrd11	36" metal culvert	surface run-off	rural residential	none	No	No
1/9/2007	riverrd12	1' metal culvert	storm drain	rural residential	none	No	No
1/9/2007	riverrd13	1' metal culvert in storm drain	surface run-off	rural residential	none	No	No
1/9/2007	riverrd14	1' metal storm drain	surface run-off	rural residential	none	No	No
1/9/2007	riverrd15	1' metal storm drain	surface run-off	rural residential	none	No	No
1/10/2007	rvrrd16	metal culvert 18" wide in cement box 2' below road	3 intermittent drainages each 1' wide S of road, none N of road	rural residential	drainages dominated by ivy; redwoods near the road	Yes	No
1/10/2007	rvrrd17	metal grate with 18" wide metal culvert 18" below road on S; 18" metal culvert with sandbag-lined drainage on N side of road	surface water discharges to lined drainage that loses bed/bank after 20'	S: rural residential; N: redwood forest	no vegetation in drainage; redwoods near road	No	No
1/10/2007	rvrrd18	box culvert 7'x7', 3' below road	N: cement-lined drainage for 20', then 5' wide with 1" deep water beyond; S: drainage 7' wide	N: Russian River; S: rural res. With redwood	blackberry dominates drainage to North; no vegetation to South; redwoods near road	Yes	No
1/10/2007	rvrrd19	5' wide metal culvert 15' below road	water is 2" deep in drainage and 4' deep in pond at mouth of culvert	mixed evergreen forest	blackberry; water is ponded at mouth of culvert	Yes	No
1/10/2007	rvrrd20	metal culvert 5' wide, 4' below road	ephemeral drainage 4' wide, 1' deep, no water; cobble	redwood forest	no vegetation in bed of drainage; blackberry on banks; cobble in bed	Yes	No
1/10/2007	rvrrd21	culvert covered by blackberries	4' wide swale on S side, Russian River on north	rural residential	dominated by blackberry	Yes	No
1/10/2007	rvrrd22	1'x1' metal grate, 9" metal culvert 6" below road goes west to larger culvert	surface runoff	rural residential	none	No	No
1/10/2007	rvrrd23	3' wide grate drops 3' to a 2' wide metal culvert going north	surface runoff	S: rural residential; N: Russian River	none	No	No
1/9/2007	trentrd1a	36" metal culvert 1' below road in cement box	2' channel with riparian veg	rural residential	riparian vegetation includes blackberry and willow	Yes	Yes
1/9/2007	trentrd1b	36" metal culvert 6' below road in cement box	3' channel with riparian veg	rural residential	riparian vegetation includes blackberry and willow	Yes	Yes
1/9/2007	vhrd1	n/a	surface run-off	ruderal/dev eloped	none	No	No
1/9/2007	vhrd2	n/a	surface run-off	ruderal/dev eloped	none	No	No
1/9/2007	vhrd3	n/a	surface run-off	ruderal/dev eloped	none	No	No

1/9/2007	vhrd4	18" plastic culvert 3' below road	1' ephemeral drainage	E: vineyard, W: rural residential	various grass species	Yes	No
1/9/2007	vhrd5	24" plastic culvert 2' below road	no channel	E: vineyard, W: rural residential	various grass species	No	No
1/9/2007	vhrd6	24" plastic culvert 2' below road	no channel	E: vineyard, W: rural residential	various grass species	No	No
1/9/2007	vhrd7	24" metal culvert 6" below road	2.5' roadside ditch (ephemeral);	E: vineyard, W: rural residential	no vegetation in drainage	Yes	No
1/9/2007	vhrd8	36" metal culvert 2' below road	4' ephemeral channel	rural residential	blackberry is dominate species in drainage	Yes	No
1/9/2007	vhrd9	1' metal culvert 3' below road	2' ephemeral channel	E: rural residential, W: vineyard	blackberry, <i>Trifolium</i> sp.	Yes	No
1/9/2007	vhrd10	24" plastic culvert 2' below road	1' ephemeral channel	rural residential	blackberry on one side, no vegetation on other	Yes	No
1/9/2007	vhrd11	18" metal culvert 2' below road	intermittent, 3' wide	rural residential	minimal riparian vegetation	Yes	No

APPENDIX F

NOISE ANALYSIS

ENVIRONMENTAL NOISE AND VIBRATION ANALYSIS

**Russian River Wastewater Treatment Plant (WWTP)
Irrigation Reliability and Beneficial Reuse Project
Sonoma County, California**

BBA Project No. 06-232

Prepared For

Analytical Environmental Services
1801 Seventh Street, Suite 100
Sacramento, CA 95814

**Revised
May 10, 2007**

Prepared By

Brown-Buntin Associates, Inc.
Fair Oaks, California

INTRODUCTION

The Proposed Project would result in the development of a recycled-water distribution system to deliver recycled water from the District's WWTP to existing agricultural, municipal, and other permitted operations in the surrounding area. The Proposed Project would consist of the construction, operation, and maintenance of the following components:

- Up to 32 miles of recycled water pipelines extending from the District's WWTP to users.
- Pumping facilities, including upgrades to existing booster pump stations at the WWTP.
- Off-site storage tanks with a combined holding capacity of up to 1,000,000 gallons.
- Service turnouts from the pipelines and other facilities to provide recycled water to users.
- Associated connecting pipelines and other minor appurtenances.

The District would need to acquire access easements, encroachment permits, leases, or public and private property along and adjacent to the pipeline routes for the construction, operation, and maintenance of project components. The place of use would consist of suitable irrigation lands along pipeline routes that would provide sufficient acreage to meet the District's needs. Approximately 6,800 acres of lands suitable for irrigation are within range of the Proposed Project.

The District is considering two pipeline alignments. Pipeline Alignment 1 consists of approximately 12 miles of pipeline and appurtenances in the Green Valley area, while Pipeline Alignment 2 consists of approximately 20 miles of pipeline and appurtenances in the Russian River Valley area. **Figure 1** presents the alignment and location of proposed facilities.

The project-related noise sources of potential concern are construction activities along the pipeline routes, at the storage tank site, and at the booster pump sites, as well as changes to the pumps at the existing wastewater treatment plant near Guerneville, and operation of the remote booster pump adjacent to River Road.

Fundamentals of Acoustics

Noise is often described as unwanted sound, and thus is a subjective reaction to the physical phenomenon of sound. Sound is variations in air pressure that the ear can detect. The ear responds to pressure changes over a range of 10^{14} to 1. This is roughly equivalent to the range of 1 second as compared to 3.2 million years, or 1 square yard compared to the entire surface area of the earth. To deal with the extreme range of pressures which the ear can detect, researchers express the amount of acoustical energy of a sound by comparing the measured sound pressure to a reference pressure, then taking the logarithm (base 10) of the square of that number. This original unit of sound measurement, named the bel after Alexander Graham Bell, corresponded well to human hearing characteristics if it was divided by a factor of 10. The resulting unit, one tenth of a bel, is called the decibel, and is abbreviated as dB.

The threshold of hearing is considered to be zero (0) dB, and the range of sounds in normal human experience is 0 to 140 dB. Because sound pressure levels are defined as logarithmic numbers, the values cannot be directly added or subtracted. For example, two sound sources, each producing 50 dB, will produce 53 dB when combined, not 100 dB. This is because two sources have two times the energy of one source, and 10 times the logarithm of 2 equals 3. Similarly, ten sources produce a 10 dB higher sound pressure level than one source, as ten times the logarithm of 10 equals 10.

The ear responds to pressure variations in the air from about 20 times per second to about 20,000 times per second. The frequency of the variations is described in terms of hertz (Hz), formerly called cycles per second. The ear does not respond equally to all frequencies. For example, we do not hear very low frequency sounds as well as we hear higher frequency sounds, nor do we hear very high frequency sounds very well. This difference in perceived loudness varies with the sound pressure level of the sound. In general, the maximum sensitivity of the ear occurs at frequencies between about 500 and 8000 Hz.

To compensate for the fact that the ear is not as sensitive at some frequencies and sound pressure levels as at others, a number of frequency weighting scales have been developed. The "A" weighting scale is most commonly used for environmental noise assessment, as sound pressure levels measured using an A-weighting filter correlate well with community response to noise sources such as aircraft and traffic.

When an A-weighting filter is used to measure sound pressure levels, the results may be expressed as *sound levels*, in decibels (dB). It is sufficient to use the abbreviation "dB" if these terms are well defined, but many people prefer to use the expressions dBA or dB(A) for clarity. For convenience, many people use the term "noise level" interchangeably with "sound level." Table I shows typical sound levels and relative loudness for various types of noise environments.

The ambient noise level is defined as the noise from all sources near and far, and refers to the noise levels that are present before a noise source being studied is introduced. A synonymous term is pre-project noise level. Noise exposure contours or noise contours are lines drawn about a noise source representing constant levels of noise exposure. CNEL or L_{dn} (DNL) contours are frequently utilized to graphically portray community noise exposure. The terms CNEL and L_{dn} (DNL) are defined in the following section.

Environmental Noise Descriptors

Most environmental noise sources produce varying amounts of noise over time, so the measured sound levels also vary. For example, noise produced during a train passage will vary from relatively quiet background levels before the event to a maximum value when the train passes by, then returning down to background levels as the train leaves the observer's vicinity. Similarly, noise from traffic varies with the number and types of vehicles, speed and proximity to the observer.

Variations in sound levels may be addressed by statistical methods. The simplest of these are the maximum (L_{max}) and minimum (L_{min}) noise levels, which are the highest and lowest levels

observed. To describe less extreme variations in sound levels, other statistical descriptors may be used, such as the L_{10} and L_{50} and L_{90} . The L_{10} is the A-weighted sound level equaled or exceeded during 10 percent of a time period. Similarly, the L_{50} and L_{90} are the sound levels equaled or exceeded during 50 and 90 percent of a time period. The most common time period used with these statistical descriptors is 1 hour, although any time period could be used so long as it is stated. Because statistical descriptors such as L_{10} , L_{50} , etc. are sometimes cumbersome to calculate, the equivalent sound level (L_{eq}) or energy average sound level is often used to describe the “average” sound level during the stated time period, usually 1 hour.

The Day-Night Level (DNL or L_{dn}) is calculated from hourly L_{eq} values, after adding a “penalty” to the noise levels measured during the nighttime (10 p.m. to 7 a.m.) hours. The penalty for nighttime hours is a factor of 10, which is equivalent to 10 dB.

TABLE I EXAMPLES OF A-WEIGHTED SOUND LEVELS AND RELATIVE LOUDNESS			
Sound Source	Sound Level (dBA)	Relative Loudness (approximate)	Relative Sound Energy
Jet aircraft, 100 feet	130	128	10,000,000
Rock music with amplifier	120	64	1,000,000
Thunder, snowmobile (operator)	110	32	100,000
Boiler shop, power mower	100	16	10,000
Orchestral crescendo at 25 feet, noisy kitchen	90	8	1,000
Busy street	80	4	100
Interior of department store	70	2	10
Ordinary conversation, 3 feet away	60	1	1
Quiet automobile at low speed	50	1/2	.1
Average office	40	1/4	.01
City residence	30	1/8	.001
Quiet country residence	20	1/16	.0001
Rustle of leaves	10	1/32	.00001
Threshold of hearing	0	1/64	.000001
Source: U.S. Department of Housing and Urban Development, “Aircraft Noise Impact -- Planning Guidelines for Local Agencies,” 1972.			

MEASURES OF SIGNIFICANCE

California Environmental Quality Act

The California Environmental Quality Act (CEQA) requires that significant environmental impacts be identified, and that such impacts be eliminated or mitigated to the extent feasible. Section XI of Appendix G of CEQA Guidelines (Cal. Code Regs., tit. 14, App. G) sets forth some characteristics that may signify a potentially significant impact. Specifically, a significant effect from noise may exist if a project would result in:

- a) exposure of persons to, or generation of, noise levels in excess of standards established in the local General Plan or noise ordinance, or applicable standards of other agencies;

- b) exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels;
- c) a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project; or
- d) a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.

Fixed (Non-Transportation) Noise Sources

For non-transportation noise sources affecting noise sensitive land uses, most jurisdictions consider a long-term increase in ambient noise levels of 3 dBA to be potentially significant. This amount of change in environmental noise levels is generally considered to be perceptible, though not necessarily clearly noticeable, by most people.

Construction Noise Levels

Noise due to construction activities may be considered to be less than significant if:

- the construction activity is temporary;
- use of heavy equipment and noisy activities is limited to daytime hours;
- no pile driving or surface blasting is planned; and
- all industry-standard noise abatement measures are implemented for noise-producing equipment.

These general parameters acknowledge that people are not as likely to be annoyed by activities that are perceived as being necessary for normal commerce, so long as the inconveniences due to noise are of relatively short duration, and that all practical measures are being implemented to reduce the impacts of noise-producing activities.

Vibration Level Criteria

The vibration assessment methodology and criteria used for this project were derived from the Federal Transit Administration (FTA) document entitled Transit Noise and Vibration Assessment, dated April 1995. In this document, the criteria for ground-borne vibration are expressed in terms of the “vibration velocity level”, in VdB, with a reference velocity of 10^{-6} in/sec.

The threshold of vibration perception is taken by the FTA to be 65 VdB, and the threshold of potential architectural damage to fragile structures is about 100 VdB. For residential uses, vibration levels less than 72 VdB are considered acceptable for exposures to more than 70 vibration events per day, and vibration levels less than 80 VdB are considered acceptable for exposures to fewer than 70 vibration events per day.

Caltrans has prepared guidelines for acceptable vibration limits in terms of the induced peak particle velocity (PPV). Tables 19 and 20 of the Caltrans Transportation- and Construction-induced Vibration Guidance Manual¹ are reproduced below:

Table 19. Guideline Vibration Damage Potential Threshold Criteria		
Structure and Condition	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08
Fragile buildings	0.20	0.10
Historic and some old building	0.50	0.25
Older residential structures	0.50	0.30
New residential structures	1.00	0.50
Modern industrial/commercial building	2.00	0.50
Note: Transient sources create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.		

Table 20. Guideline Vibration Annoyance Potential Criteria		
Human Response	Maximum PPV (in/sec)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Barely perceptible	0.04	0.01
Distinctly perceptible	0.25	0.04
Strongly perceptible	0.90	0.10
Severe	2.00	0.40
Note: Transient sources create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.		

REGULATORY SETTING

Sonoma County General Plan Noise Standards

The criteria for evaluating noise impacts in Sonoma County are set forth in the Noise Element of the General Plan, adopted in 1988. The policies of the Noise Element include noise standards for locally regulated noise sources such as the lift station pumps associated with the Proposed Project. The noise performance standards for non-transportation noise sources are shown by Table 4.5-2.

¹ Jones & Stokes. 2004. *Transportation- and construction-induced vibration guidance manual*. June. (J&S 02-039.) Sacramento, CA. Prepared for California Department of Transportation, Noise, Vibration, and Hazardous Waste Management Office, Sacramento, CA.

Policy NE-1a of the current version of the Noise Element of the Sonoma County General Plan designates areas within Sonoma County as “noise impacted” if they are exposed to existing or projected exterior noise levels exceeding 60 dB L_{dn} , 60 dB CNEL, or the performance standards of Noise Element Table NE-2 (below).

NOISE ELEMENT TABLE NE-2 Maximum Exterior Noise Standards, dBA			
Category	Cumulative Duration of Noise Event in Any One-Hour Period	Daytime 7 a.m. to 10 p.m.	Nighttime 10 p.m. to 7 a.m.
1	30 - 60 minutes	50	45
2	15 - 30 minutes	55	50
3	5 - 15 minutes	60	55
4	1 - 5 minutes	65	60
5	0-1 minutes	70	65
For the purposes of this analysis, the noise standards of categories 1-5 are considered to be equivalent to the L_{50} , L_{25} , L_8 , L_2 and L_{max} , respectively. Refer to the discussion of acoustical fundamentals for definitions of these terms.			

Policy NE-1c addresses the control of non transportation related noise from new projects. The total noise level resulting from new sources shall not exceed the standards in Table NE-2 as measured at the exterior property line of any affected residential land use. Exceptions are limited to the following:

1. If the ambient noise level exceeds the standard in Table NE-2, adjust the standard to equal the ambient level.
2. Reduce the applicable standards in Table NE-2 by five dBA for simple tone noises, noises consisting primarily of speech or music, or for recurring impulsive noises.
3. Reduce the applicable standards in Table NE-2 by 5 decibels if they exceed the ambient level by 10 or more decibels.

Noise and Vibration Impact Thresholds

For this project, the thresholds of noise impacts are assumed to be:

- Exceeding the noise standards of the Sonoma County General Plan Noise Element due to project-related activities;
- Changes in median noise levels of more than 3 dBA;
- Construction vibration levels exceeding 100 VdB;
- Use of heavy construction equipment and conduct of noisy construction activities during nighttime hours; and
- Use of construction equipment that is inconsistent with industry-standard noise abatement measures.

ENVIRONMENTAL SETTING

The land uses along the proposed pipeline routes are varied, but are predominantly residential. Campgrounds, trailer parks, and bed-and-breakfast lodging are present at several locations along the River Road, and concentrations of residences are found in the Mirabel, Rio Dell, Rio Nido, and Guerneville areas. In the rural areas, houses are widely spaced, and are typically set back from the roadway and pipeline route. A charter high school is located at 10391 River Road in Forestville. No other schools or churches are present along the pipeline routes.

Ambient Noise Levels

A combination of methods was used to describe ambient noise levels in the project area. Brown-Buntin Associates, Inc. (BBA) collected current noise level data along the pipeline routes, and historical data were used to further characterize noise due to traffic and the existing treatment plant operations.

BBA conducted short-term (15-minute) noise level measurements at five locations along the pipeline routes on January 2 and 3, 2007, as depicted on Figure 1. The noise measurement equipment was a Larson Davis Model 820 Precision sound level meter that was calibrated in the field prior to the measurement using a Bruel & Kjaer Type 4230 acoustical calibrator. The weather during the measurement period was cool, cloudy and misting. Table II provides a description of each measurement site, and Table III lists the noise measurement results.

TABLE III AMBIENT NOISE MEASUREMENT SITES January 2-3, 2007		
Site Number	Latitude/Longitude	Description
1	38° 29' 44"W/122° 53' 57"N	Steelhead Beach Access Road: 80 feet from River Road centerline
2	38° 30' 50"W/122° 59' 00"N	Rio Nida Area: 65 feet from River Road centerline
3	38° 29' 00"W/122° 59' 03"N	12445 May Canyon Road
4	38° 27' 46"W/122° 56' 28"N	13628 Green Valley Road
5	38° 36' 38"W/122° 52' 43"N	9529 Green Valley Road

**TABLE III
AMBIENT NOISE MEASUREMENT RESULTS**

Site	Date	Time	Sound Level, dB								Comments
			Leq	Lmin	Lmax	L90	L50	L25	L08	L02	
1	1-2-07	2045	60.5	34	72	36	45	59	67	69	Traffic
2	1-2-07	2111	60.6	39	75	41	49	57	66	70	Traffic
3	1-2-07	2135	35.5	28	51	29	29	29	39	45	
4	1-2-07	2202	28.0	18	49	18	19	20	25	39	
5	1-2-07	2227	48.4	31	67	32	34	36	43	59	
1	1-3-07	0948	64.9	35	75	43	57	66	70	72	Traffic
2	1-3-07	1015	67.0	43	78	52	64	68	71	72	Traffic
3	1-3-07	1119	51.9	36	73	38	41	44	46	61	4 cars
4	1-3-07	1150	52.3	39	75	39	41	43	49	56	Construction
5	1-3-07	1219	62.0	35	75	37	48	56	69	72	Traffic

As part of the update of the Sonoma County General Plan, ambient noise measurements were conducted on August 1, 2002, in the vicinity of Johnson's Beach in Guerneville. Figure 2 shows the hourly noise measurement results at that location. The measured Day-Night Level (L_{dn}) was 54.5 dB. The average daytime L_{50} value was 49 dB, and the average nighttime L_{50} value was 43 dB.

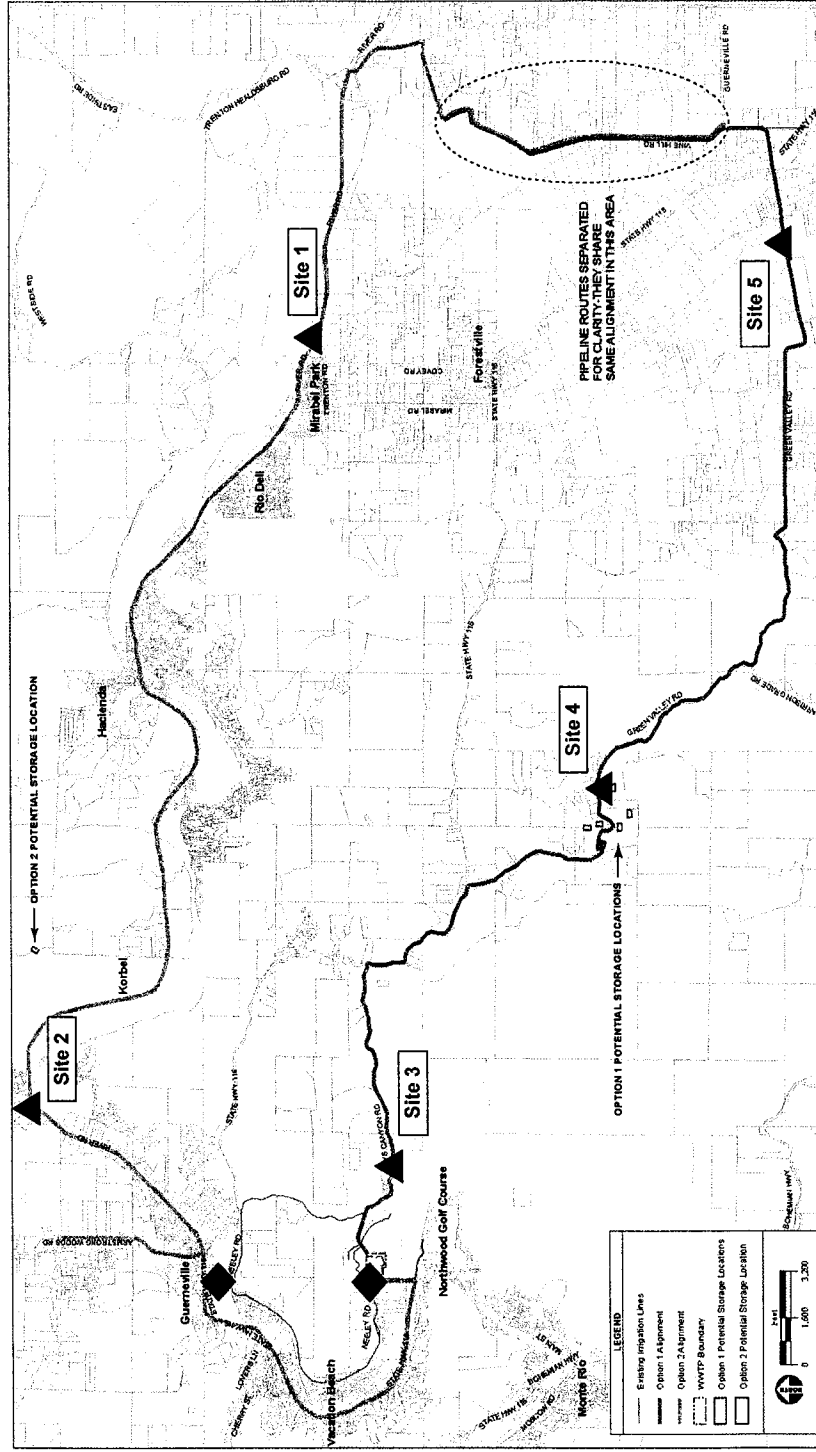
On March 20-21, 2006, BBA conducted ambient noise measurements adjacent to the west gate to the existing waste water treatment plant (WWTP), which is adjacent to residences. Noise measurement equipment consisted of a Larson Davis Laboratories (LDL) Model 820 precision integrating sound level meter, which was equipped with a B&K Type 4176 ½" microphone. The measurement equipment was calibrated immediately before and after use, and meets the specifications of the American National Standards Institute (ANSI) for Type 1 sound measurement systems.

Figure 3 summarizes the hourly noise measurement data collected at the WWTP. These data show that the ambient noise levels are relatively constant over the 24-hour day. The exception occurred with the arrival of a vehicle and the subsequent operation of the gate in the morning, when an exceptionally loud noise was produced for a short time period. The measured L_{dn} was 56.9 dB. The background noise level of 44 to 45 dB (L_{90}) was produced by the blowers in a block building located about 200 feet from the gate. The median noise level at nighttime was in the range of 48 dB (L_{50}). The ambient noise levels were within acceptable limits for residential uses.

Blowers and pumps currently operate at the existing waste water treatment plant. The dominant noise source from the west of the facility is the blowers located in a block building visible from the gate. BBA conducted a measurement of the noise produced by these blowers on March 20, 2006, at a distance of 100 feet from the building. The average noise level (L_{eq}) was 55.9 dB at this distance.

The blower noise measurement indicated that the blower noise was relatively constant. Tonal noise was present in the range of 125 Hz to 200 Hz.

Figure 1
Project Overview and Ambient Noise Measurement Locations
Russian River WWTP Irrigation Reliability and Beneficial Reuse Project



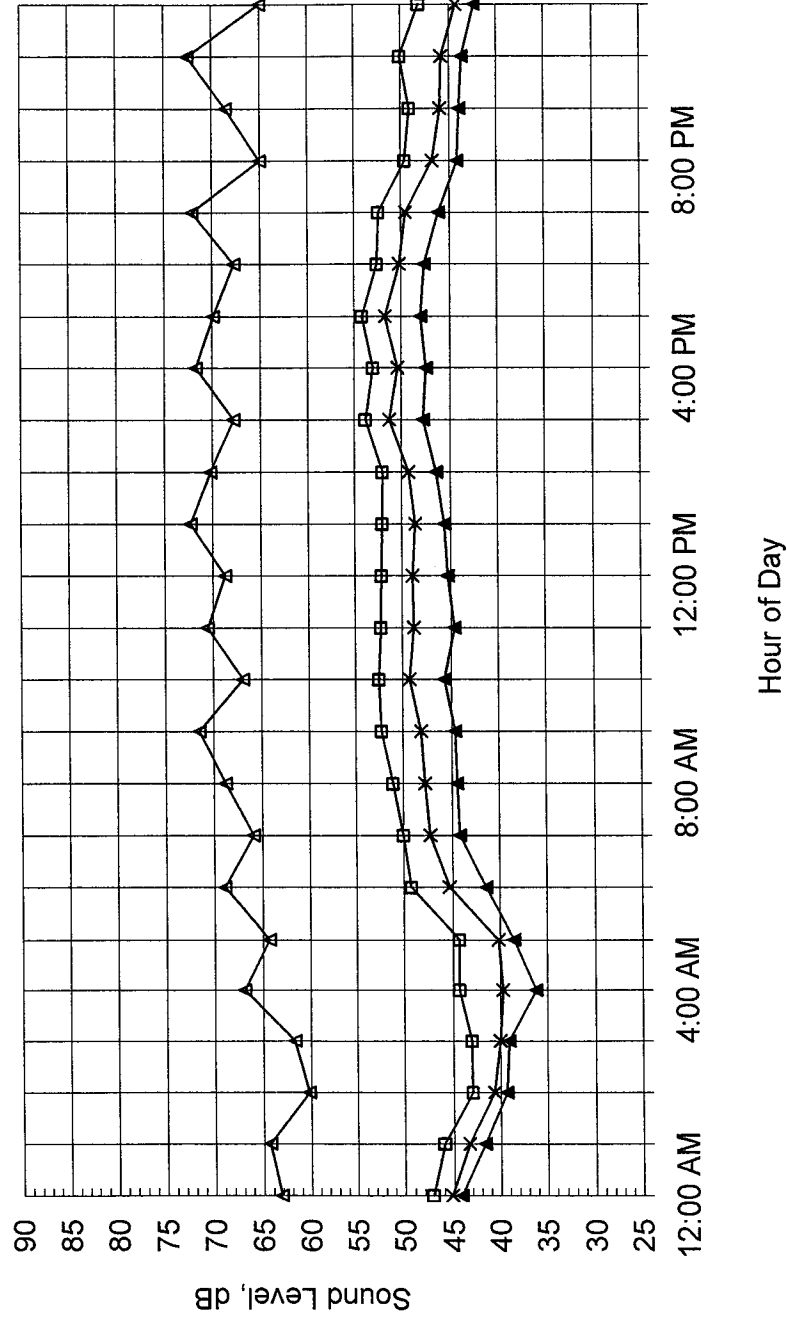
SOURCE: Sonoma County Rural Agency, 2006; ALS, 2008

PROJECT: Irrigation Reliability and Beneficial Reuse Project
 DATE: 12/15/2011

- ▲ Short-term measurement sites
- ◆ 24-hour measurement sites

Figure 2: Measured Hourly Noise Levels

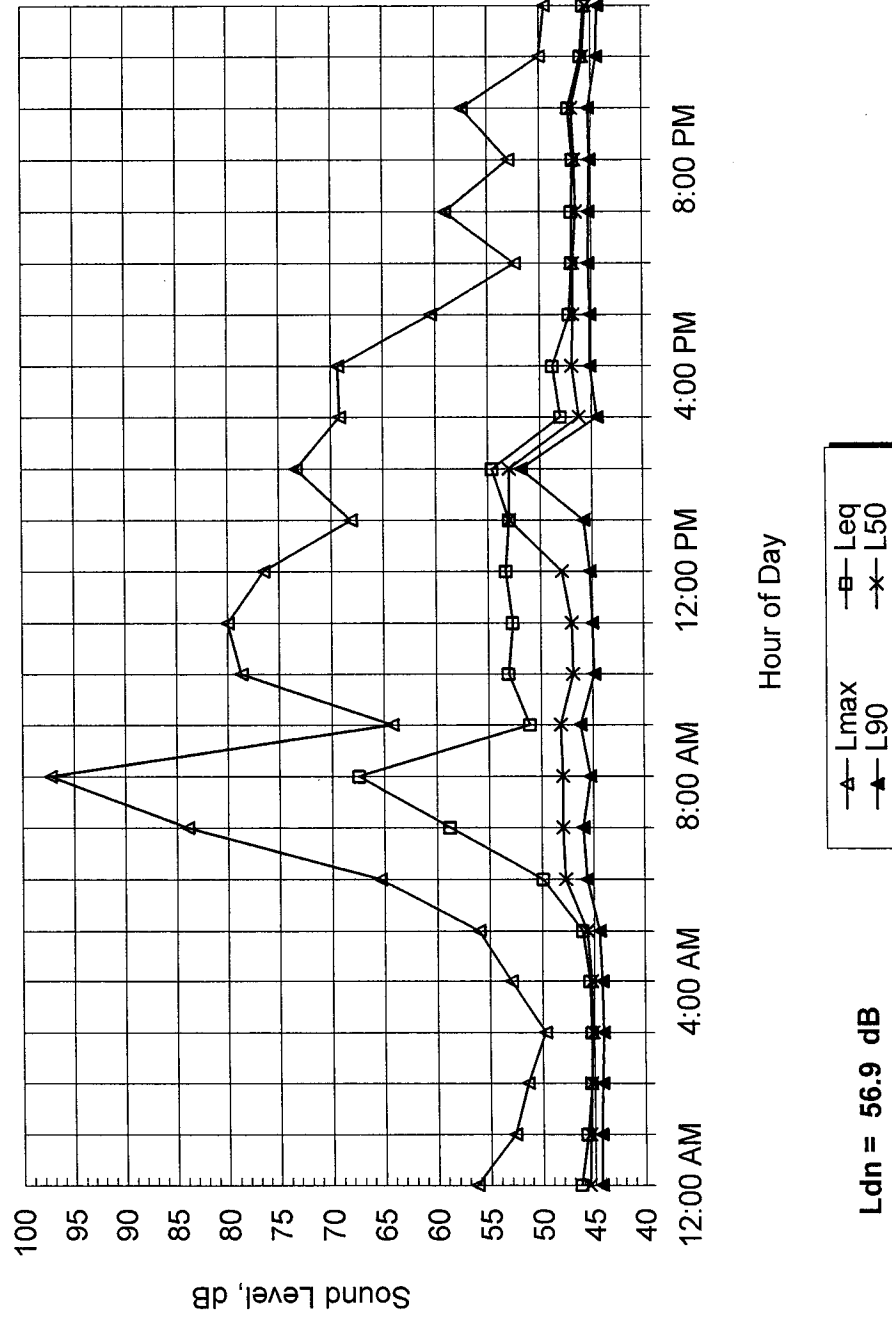
Johnson's Beach, Guerneville
August 1, 2002



Ldn = 54.5 dB



Figure 3: Measured Hourly Noise Levels
 Russian River Waste Water Treatment Plant
 March 20-21, 2006



In the portions of the project that are adjacent to River Road, noise from traffic on that roadway dominates the local noise environment. In the more remote rural areas, ambient noise levels are relatively low, especially at night.

Description of Existing Ambient Vibration Environment

Vibration that is perceptible to people may be caused by roadway traffic, industrial processes, construction, or blasting. No significant long-term vibration sources are currently found on or near the project site. Vibration is currently imperceptible in the project vicinity.

Roadway Traffic Noise Levels

Roadway traffic noise levels for River Road have been described in the Noise Element of the Sonoma County General Plan. Table IV lists the predicted distances to noise contour values of 60 dB and 65 dB L_{dn} for that roadway in the future, under General Plan build-out conditions.

TABLE IV PREDICTED DISTANCES TO FUTURE TRAFFIC NOISE CONTOURS River Road, Sonoma County		
Segment	Distance to 60 dB L_{dn} , feet	Distance to 65 dB L_{dn} , feet
West of Orchard Road	150	70
East of Canyon 2 Road	142	66
West of Mirabel Road	155	72
West of Trenton-Healdsburg Road	138	64

Based upon these predictions, traffic noise levels are expected to exceed 60 dB L_{dn} within about 155 feet of the centerline of River Road throughout the project area.

IMPACTS

Construction Noise:

Recycled Water Pipelines

During the construction phase of the pipelines, noise from construction equipment would dominate the noise environment in the immediate area. The nearest potentially affected sensitive receivers along the pipeline routes would be the homes along River Road, which could be as close as 50 feet from the project site. Equipment used for construction of the pipelines would be expected to generate noise levels in the range indicated in Table V. Maximum noise levels from different types of equipment under different operating conditions could range from 70 dBA to 90 dBA at a distance of 50 feet, which would correspond to the locations of the nearest houses under worst-case conditions.

Equipment Description	Impact Device ?	Typical Use Factor %	Predicted Lmax @ 50 ft (dBA, slow)	Average Measured Lmax @ 50 ft (dBA, slow)	No. of Data Samples
All Other Equipment > 5 HP	No	50	85	-- N/A --	0
Auger Drill Rig	No	20	85	84	36
Backhoe	No	40	80	78	372
Boring Jack Power Unit	No	50	80	83	1
Compactor (ground)	No	20	80	83	57
Compressor (air)	No	40	80	78	18
Concrete Mixer Truck	No	40	85	79	40
Concrete Pump Truck	No	20	82	81	30
Concrete Saw	No	20	90	90	55
Crane	No	16	85	81	405
Dozer	No	40	85	82	55
Drill Rig Truck	No	20	84	79	22
Dump Truck	No	40	84	76	31
Excavator	No	40	85	81	170
Flat Bed Truck	No	40	84	74	4
Front End Loader	No	40	80	79	96
Generator	No	50	82	81	19
Generator (<25KVA, VMS signs)	No	50	70	73	74
Gradall	No	40	85	83	70
Grader 19	No	40	85	-- N/A --	0
Horizontal Boring Hydr. Jack	No	25	80	82	6
Jackhammer	Yes	20	85	89	133
Mounted Impact Hammer (hoe ram)	Yes	20	90	90	212
Pavement Scarifier	No	20	85	90	2
Paver	No	50	85	77	9
Pickup Truck	No	40	55	75	1
Pneumatic Tools	No	50	85	85	90
Roller	No	20	85	80	16
Sand Blasting (Single Nozzle)	No	20	85	96	9
Scraper	No	40	85	84	12
Tractor	No	40	84	-- N/A --	0
Ventilation Fan	No	100	85	79	13
Warning Horn	No	5	85	83	12
Welder / Torch	No	40	73	74	5

Source: FHWA Roadway Construction Noise Model, February 15, 2006.

The actual noise effects at any given sensitive receiver location along the pipeline would be the result of a series of construction tasks. For example, trenching would be preceded by pavement breaking and hauling of broken pavement. The trenching could be performed by a backhoe, or by boring. Other equipment would deliver and install the pipe, and backhoes or loaders would cover the trench. The trench would then be graded, compacted and paved, completing the construction. Compressors and generators could be used at any time. For any given receiver, the total time of exposure to construction noise would likely be in the range of less than one week.

Storage Tank Sites

During the construction of the storage tanks, noise from construction equipment would dominate the noise environment in the immediate area. Noise sources that could be of concern during storage tank construction could include backhoes, compactors, concrete mixer and pump trucks, a crane, bulldozers and front end loaders. Compressors and generators might also be used.

The storage tanks for Proposed Alignment 1 would be in a lightly populated area with scattered residences. Because no specific tank locations have yet been established, it is not possible to assign specific distances from noise sources to receivers. However, for general reference, equipment used for construction on this project would be expected to generate noise levels in the range indicated in Table V. Maximum noise levels from different types of equipment under different operating conditions could range from 70 dBA to 90 dBA at a distance of 50 feet.

The storage tanks for Proposed Alignment 2 would be about 3,000 feet from the nearest residences, and about 4,000 feet from the Korbel Winery facilities. Given these distances, noise levels produced by construction equipment would be reduced by 35 dB or more at the nearest sensitive receivers, as compared to the values shown by Table V.

Pump Installation

Pump installation would typically involve operation of powered equipment such as delivery trucks, power lifts, and front end loaders. Manual tasks such as hammering, drilling, and bolt-tightening with pneumatic tools could also produce noticeable noise. These tasks would occur within about 530 feet of the residences nearest the WWTP, and within about 240 feet of the residences nearest the remote booster pump station. In the vicinity of the WWTP, noise levels expected at the nearest residences would be reduced by about 20 dB as compared to the values shown by Table V. In the vicinity of the remote booster pump station, noise levels expected at the nearest residences would be reduced by about 13 dB as compared to the values shown by Table V.

Construction noise impacts could be significant, as nighttime operations or use of unusually noisy equipment could result in annoyance or sleep disruption for nearby residences. Construction noise impacts are considered to be potentially significant.

Construction Vibration

Construction activities such as bulldozer and heavy truck movements, use of jackhammers, impact hammers, and compactors may produce detectable levels of vibration at nearby sensitive land uses. Ground vibrations due to construction activities very rarely reach the levels that can damage structures, but they can cause levels that are perceptible in buildings close to the site². Exceptions may occur where fragile historical buildings are close to the site, as these structures may be more susceptible to vibration-induced damage than modern buildings.

² U.S Department of Transportation, Transit Noise and Vibration Impact Assessment, Federal Transit Administration, April 1995.

Vibration levels caused by representative construction equipment have been published by the Federal Transit Administration³, as shown by Table VI. Based upon these values, vibration due to the operation of equipment such as heavy trucks and bulldozers associated with the project could be perceptible, and could result in annoyance, for residents in homes located within about 60 feet of the construction site. Structural damage due to construction-related vibration is unlikely beyond 25 feet of the construction site.

The majority of construction activity is expected to occur at distances greater than 60 feet from sensitive structures. Where construction activity involving heavy equipment occurs within 60 feet of residences (such as may occur along the pipeline route), the people in those homes may be annoyed, but no structural damage would be expected. The use of heavy equipment that would produce the highest vibration levels would be limited to daytime hours. Due to the potential for creating annoyance, construction-related vibration is potentially significant.

TABLE VI VIBRATION SOURCE LEVELS FOR CONSTRUCTION EQUIPMENT		
Equipment	Peak Particle Velocity at 25 feet (inches/second)	Approximate Vibration Level (VdB) at 25 feet
Large bulldozer	0.089	87
Caisson drilling	0.089	87
Loaded trucks	0.076	86
Jackhammer	0.035	79
Small bulldozer	0.003	58
Source: U.S Department of Transportation, <u>Transit Noise and Vibration Impact Assessment</u> , Federal Transit Administration, April 1995.		

WWTP Noise:

The existing noise environment in the vicinity of the Russian River wastewater treatment plant is dominated by the blowers, as noted in the Setting section above. The project would include replacement of existing pumps at the Russian River WWTP with a new unit. Specifically, the Proposed Project would require installing a new pump of 250 horsepower at the northwest corner of the emergency holding pond, which is about 530 feet from the west property line.

To quantify the noise levels produced by these motors, BBA applied a standard methodology⁴ based upon motor horsepower and speed, using Formula Noise-1 as shown below. Table VII shows the noise levels predicted for the proposed WWTP pump motors at a distance of 3 feet.

$$\text{Formula Noise-1: } Lp(A) = 27 + 10 \log hp + 15 \log rpm - 1, dB$$

On January 18, 2007, BBA conducted noise measurements for an existing 60 hp pump motor in use at the Airport WWTP in Santa Rosa. The measured average noise level of that pump motor at a distance of 3 feet is also listed in Table VII.

³ Ibid.

⁴ Noise Control for Buildings and Manufacturing Plants, Hoover & Keith, 2002.

Based upon the noise level predictions for the 250 hp motor (rather than the measured noise level), the predicted noise level for the new pump as measured at the residential property line west of the Russian River WWTP is 54 dB. If the measured noise level of the existing Airport pump were assumed, the predicted noise level at the residential property line west of the Russian River WWTP would be 39 dB. These calculations assume that the sound level would decrease by 6 dB per doubling of distance, relative to the reference distance of 3 feet.

In the worst-case situation described above, use of the 250 hp motor would add 54 dB to the median ambient noise level at the nearest residential property line. The ambient median noise level (L_{50}) at that location was measured by BBA during nighttime hours at about 48 dB. The resulting cumulative median noise level with the 250 hp motor would be about 55 dB. Thus the noise due to the replacement pumps could cause an increase of 7 dB over median ambient noise levels. This is a potentially significant impact.

If the measured noise level of the Airport pump is assumed, the predicted noise level at the residential property line west of the Russian River WWTP would be 9 dB below the ambient median noise level (L_{50}). This would have a less than significant impact.

Booster Pump Noise

The proposed booster station pump would be a 75 horsepower unit, located about 240 feet from the nearest unit of a bed-and-breakfast lodging adjacent to River Road. To quantify the noise levels produced by this motor, BBA applied Formula Noise-1, adjusting for the motor horsepower. Table VII shows the noise levels predicted for the proposed booster pump motor at a distance of 3 feet.

Based upon the predicted noise level shown by Table VII, use of the 75 hp motor would add 55 dB to the ambient noise level at the nearest residential unit, which would exceed the Sonoma County daytime and nighttime noise standards. This calculation assumes that the sound level would decrease by 6 dB per doubling of distance, relative to the reference distance of 3 feet. Based on the ambient noise measurements conducted by BBA in 2007, the median ambient noise level (L_{50}) in that vicinity at night ranged from 45 to 57 dB. The resulting cumulative median noise levels with the 75 hp motor would range from 55 dB to 59 dB. Thus the noise due to the booster pump would cause an increase of more than 3 dB as compared to ambient noise levels. This would be a significant impact.

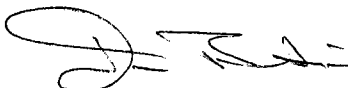
TABLE VII PREDICTED AND MEASURED PUMP MOTOR NOISE LEVELS				
Motor Location	Horsepower Rating	Noise Level at 3 feet, dB	Approx. Distance to Sensitive Receiver, feet	Noise Level at Sensitive Receiver, dB
WWTP	250	99	530	54
WWTP	60	78*	530	39
Booster	75	93	240	55
* Measured at the Airport WWTP				

MITIGATION MEASURES

Noise and vibration effects due to the project will be less than significant if construction noise and vibration are managed to the maximum practical extent, and if pump motor noise levels are controlled to ensure that WWTP and booster pump noise did not exceed background noise levels by more than 3 dB. The following mitigation measures are recommended:

1. Construction should be limited to daytime hours (7 a.m. to 10 p.m.).
2. Construction contractors shall maintain all manufacturer-installed engine mufflers and enclosures on powered construction equipment in proper working order. Impact tools shall be fitted with adequate mufflers and shrouding.
3. Construction contractors shall locate construction staging areas as far as possible from sensitive receivers.
4. Construction contractors shall locate fixed powered construction equipment such as generators and compressors as far as possible from sensitive receivers. Contractors shall provide shielding or enclosures for fixed equipment as necessary to reduce noise exposures at sensitive receivers.
5. Construction contractors shall implement all practical techniques to minimize ground-borne vibration at sensitive structures, including the use of setbacks.
6. If horizontal bore drilling is employed, the methods of shoring the excavated drill sites shall minimize vibration and noise at sensitive receiver locations.
7. The specifications for the 250 hp WWTP pump should require compliance with a noise emissions limitation of 86 dBA at a distance of 3 feet. This specification would ensure that the pump noise level would be about 1 dB below the median ambient noise level at the nearest residential property line, and the resulting increase in ambient noise levels would be less than 3 dB. As an alternative, the pump could be enclosed in a structure (a pump house) providing noise level reduction of at least 13 dBA.
8. The specifications for the 75 hp booster pump should require compliance with a noise emissions limitation of 83 dBA at a distance of 3 feet. This specification would ensure that the resulting increase in ambient noise levels would be less than 3 dB. As an alternative, the pump could be enclosed in a structure (a pump house) providing noise level reduction of at least 10 dBA.

Respectfully Submitted,
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Jim Buntin
Vice President

APPENDIX A

ACOUSTICAL TERMINOLOGY

AMBIENT NOISE LEVEL: The composite of noise from all sources near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location.

CNEL: Community Noise Equivalent Level. The average equivalent sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7:00 p.m. to 10:00 p.m. and ten decibels to sound levels in the night before 7:00 a.m. and after 10:00 p.m.

DECIBEL, dB: A unit for describing the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals (20 micronewtons per square meter).

DNL/ L_{dn} : Day/Night Average Sound Level. The average equivalent sound level during a 24-hour day, obtained after addition of ten decibels to sound levels in the night after 10:00 p.m. and before 7:00 a.m.

L_{eq} : Equivalent Sound Level. The sound level containing the same total energy as a time varying signal over a given sample period. L_{eq} is typically computed over 1, 8 and 24-hour sample periods.

NOTE: The CNEL and DNL represent daily levels of noise exposure averaged on an annual basis, while L_{eq} represents the average noise exposure for a shorter time period, typically one hour.

L_{max} : The maximum noise level recorded during a noise event.

L_n : The sound level exceeded "n" percent of the time during a sample interval (L_{90} , L_{50} , L_{10} , etc.). For example, L_{10} equals the level exceeded 10 percent of the time.

ACOUSTICAL TERMINOLOGY

**NOISE EXPOSURE
CONTOURS:**

Lines drawn about a noise source indicating constant levels of noise exposure. CNEL and DNL contours are frequently utilized to describe community exposure to noise.

**NOISE LEVEL
REDUCTION (NLR):**

The noise reduction between indoor and outdoor environments or between two rooms that is the numerical difference, in decibels, of the average sound pressure levels in those areas or rooms. A measurement of "noise level reduction" combines the effect of the transmission loss performance of the structure plus the effect of acoustic absorption present in the receiving room.

SEL or SENEL:

Sound Exposure Level or Single Event Noise Exposure Level. The level of noise accumulated during a single noise event, such as an aircraft overflight, with reference to a duration of one second. More specifically, it is the time-integrated A-weighted squared sound pressure for a stated time interval or event, based on a reference pressure of 20 micropascals and a reference duration of one second.

SOUND LEVEL:

The sound pressure level in decibels as measured on a sound level meter using the A-weighting filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the response of the human ear and gives good correlation with subjective reactions to noise.

**SOUND TRANSMISSION
CLASS (STC):**

The single-number rating of sound transmission loss for a construction element (window, door, etc.) over a frequency range where speech intelligibility largely occurs.